

Mathematics

By a group of supervisors

PARENTS' GUIDE

Interactive E-learning Application





GENERAL NOTES

for parents





Dear parents...

This guide is intended to help you work with your child to improve his or her high ordered thinking (H.O.T.) in mathematics.

It contains activities which are arranged according to the daily practice at school. Each of them has been prepared in harmony with what your child learned at school, and focusing on specific skills.

You will find in each page of this guide, a hint about what your child learned at school (day by day), and the related home activities.

Each activity is clearly labeled with the skill it teaches, and with some additional information, and further activities or experiments written especially for you.

The book is designed in an artistic and beautiful way, to make your child appreciate colorful illustrations and have fun doing the different exercises.

For a better use of this guide, and for getting better results, here are some remarks and suggestions for you, parents:

- Try to make your child's learning time secure and happy.
- Do your best to transmit the message that learning is challenging, enjoyable, and rewarding.
- When you are working with your child using this guide, encourage him/her to talk and to explain (Why? How? ...)
- Connect math to daily life, and encourage your child to tell or show you how he or she uses math in daily life.
- Praise your child's successes and encourage his or her efforts.
- Offer positive help when your child makes a mistake, and treat errors as opportunities to help your child learn something new.



New Application



Interactive application presented from...



How to use the application 1. Download the app.

Create an account.

3. Use the book code.



Interactive learning on all subjects and get all the app features free.



Explanation



Educational videos



Educational games



Interactive tests





Connect with your teacher



Follow up reports



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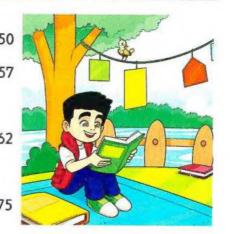
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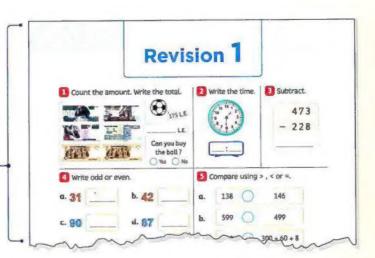
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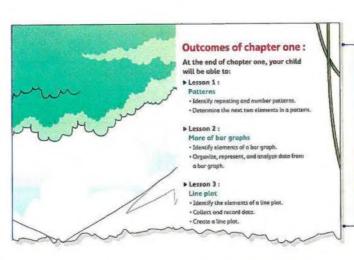
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Activities to review what your child had learned in primary two.





Outcomes .

Describe the skills your child will learn in each lesson of the chapter.



The lesson title describes the skill your child will learn in this lesson.

Learn

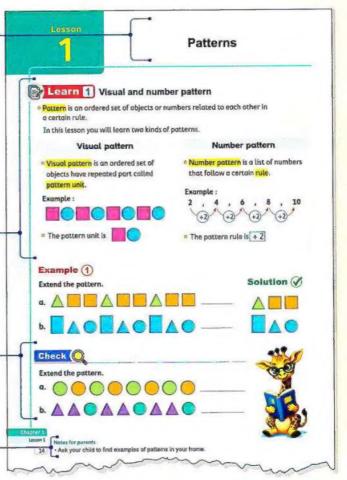
Explaning for the concept or the skill that your child should learned.

- Check

A direct exercise to let your child check his/her understanding the concept.

Notes for parents

Extra activities to share with your child at home.





Miscellaneous questions on the concept or the skill of the lesson.

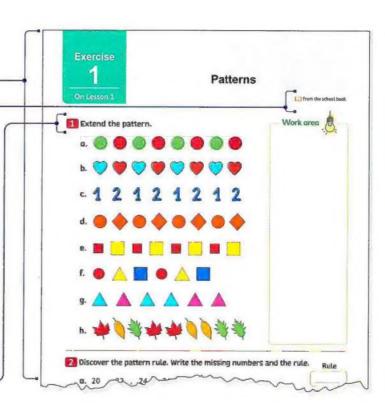
From the school book

Selected questions from the school book.

- Direction

What your child needs to do for the activity.

Help your child by reading the directions and let him/her answer the question.

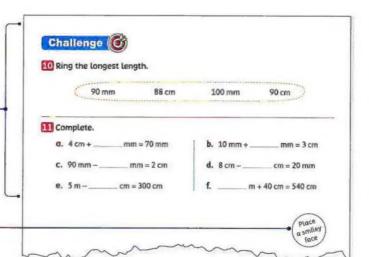


Challenge

A problem to challenge your child. He/she may need your help to solve it.

Smiley faces stickers

Place a smiley face at the end of each lesson.



I like to give helpful math tips.



Math tip

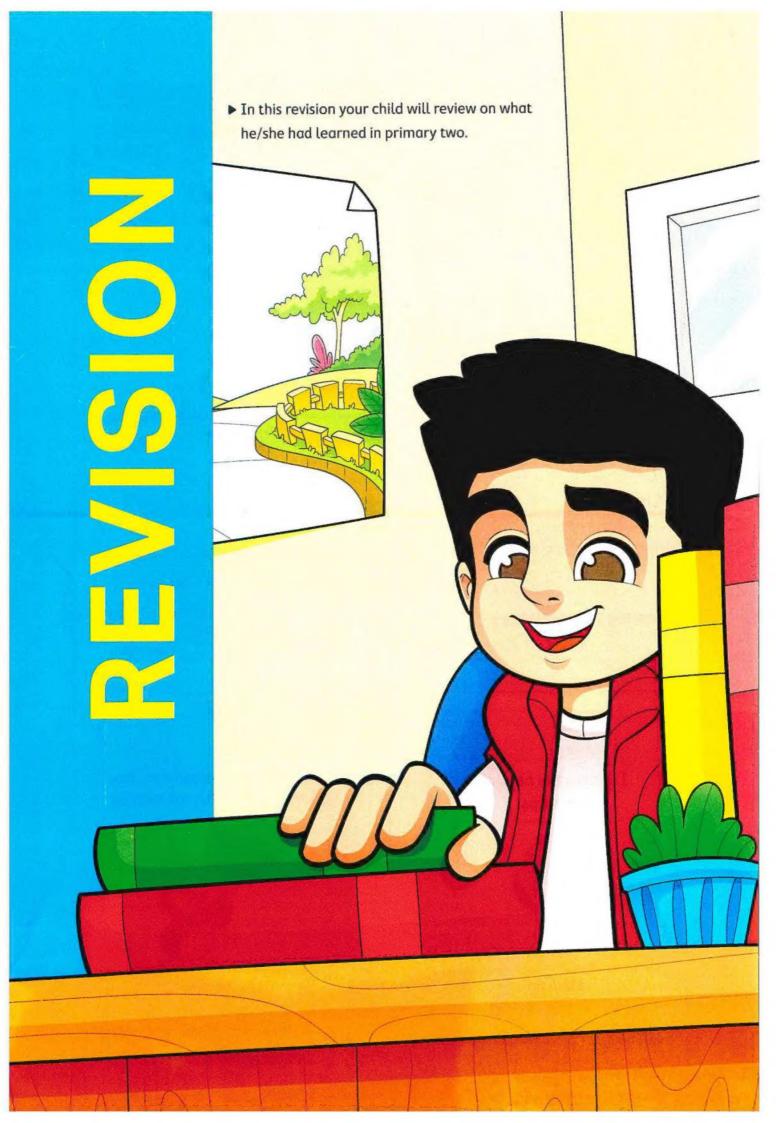
The Math tip mascot provides your child hints or tips when doing math.

I will help you remember. You will not forget with me around.



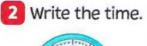
Remember

The Remember mascot helps your child connect previous knowledge to the lesson or concept.



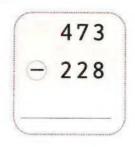
1 Count the amount. Write the total.

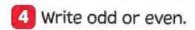






3 Subtract.







b. 42

_		-	-	-
				- 1
-	 	-	_	_

c. 90



5 Compare using > , < or =.

a.	138	146
	-	

599 499 b.

6 Choose. Number of vertices of a cube is ___

0	8	0	12

7 Round each number to the nearest hundred.

a. 95

b. 261

8 238 hot dog sandwiches were sold. 415 burger sandwiches were sold. How many sandwiches were sold together?

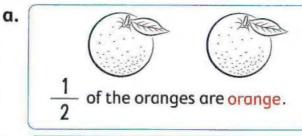
c. 739

9 Use the pictograph. How many children like mango juice best?



Key 00 = 2 children

10 Color to show the fraction.



b. of the mangoes are green.

1	Complete
	Complete

$$a. = 700 + 50 + 4$$

- **b.** Number of sides of a triangle is _____
- c. Two thirds = ----
- **d.** 19 — = 10
- e. Five hundred fifteen in standard form is ———

4 Choose.

61 + 28 is about ____

- 08
- 70
- 90
- 040

5 Draw the hour hand and the minute hand.



05:45

7 Count the amount and write the total.

a.



b.



- 9 Complete each pattern.
- a. 13, 15, 17, ____, ___,
- **b.** 89, 79, 69, _____, ____, ____
- c. 5, 10, 15, _____, ____,

2 Add to find the total.

$$23 + 14 + 39 + 16$$

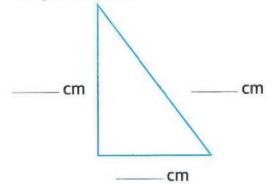
3 Choose.



-) 1 gm
 - m C
- 50 kg
- 100 kg

5 kg

6 Measure and write the length of required sides.



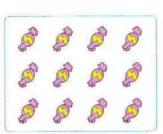
8 Omar has 354 pounds.

He gave his sister Mariam 160 pounds. How much money does he have left?

10 Choose.

The repeated addition equation of the opposite array is _____

- \bigcirc 4 + 4 + 4 + 4
- \bigcirc 3 + 3 + 3
- 04+4
- 3+3+3+3



- Complete.
- a. Number of vertices of trapezium is_
- **b.** The number of rows of the array 3 by 5 is
- c. The value of 7 in the number 678 is ___
- **d.** -19 = 7

2 Dalia baked a pizza and cut it into three equal pieces. Her brother ate one of them. What fraction of the pizza left?

The fraction is -



3 Add.

a.

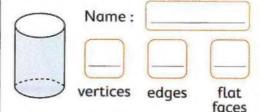
257



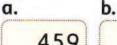
b.



4 Name the solid and write the missing number.



5 Subtract.



459 - 226



6 Use the bar graph. How many coins are saved on Monday?



7 Arrange from the greatest to the smallest.

129	291	219	192
Order i	s:,		-,-

- 8 Write the following numbers in words.
- **a.** 80
- **b.** 5
- c. 14 _____ d. 60 ____

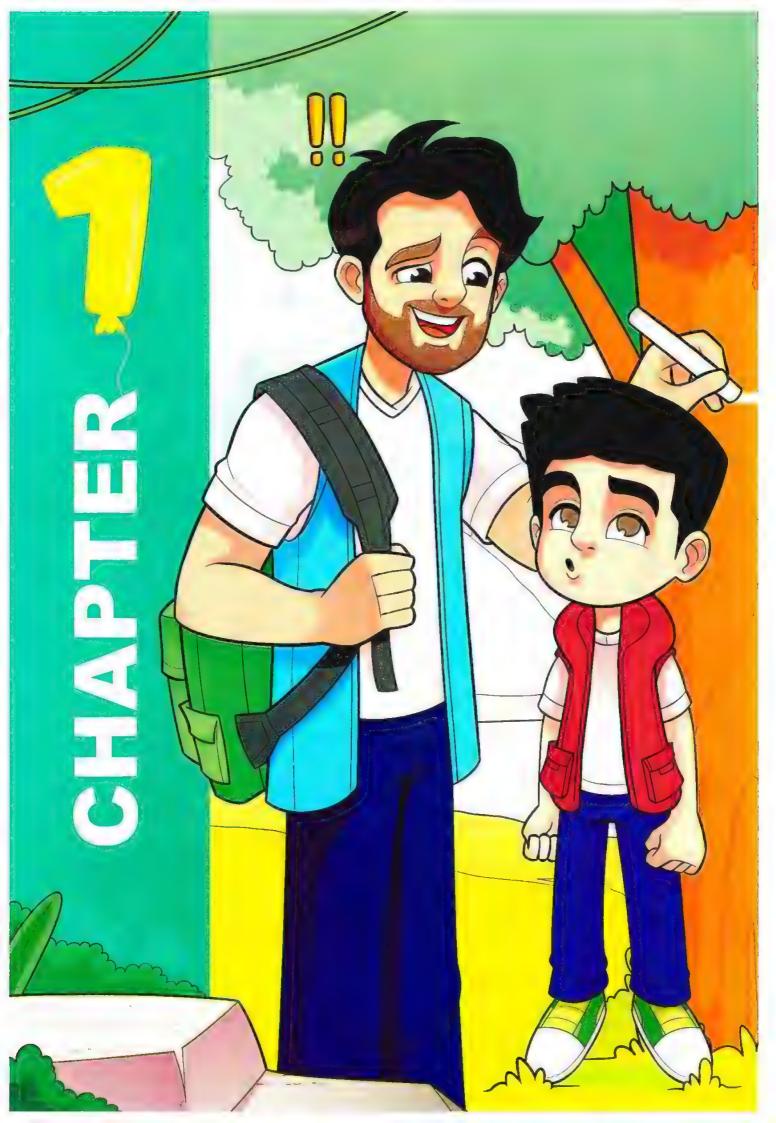
9 Write the time. Then circle A.M. or P.M.

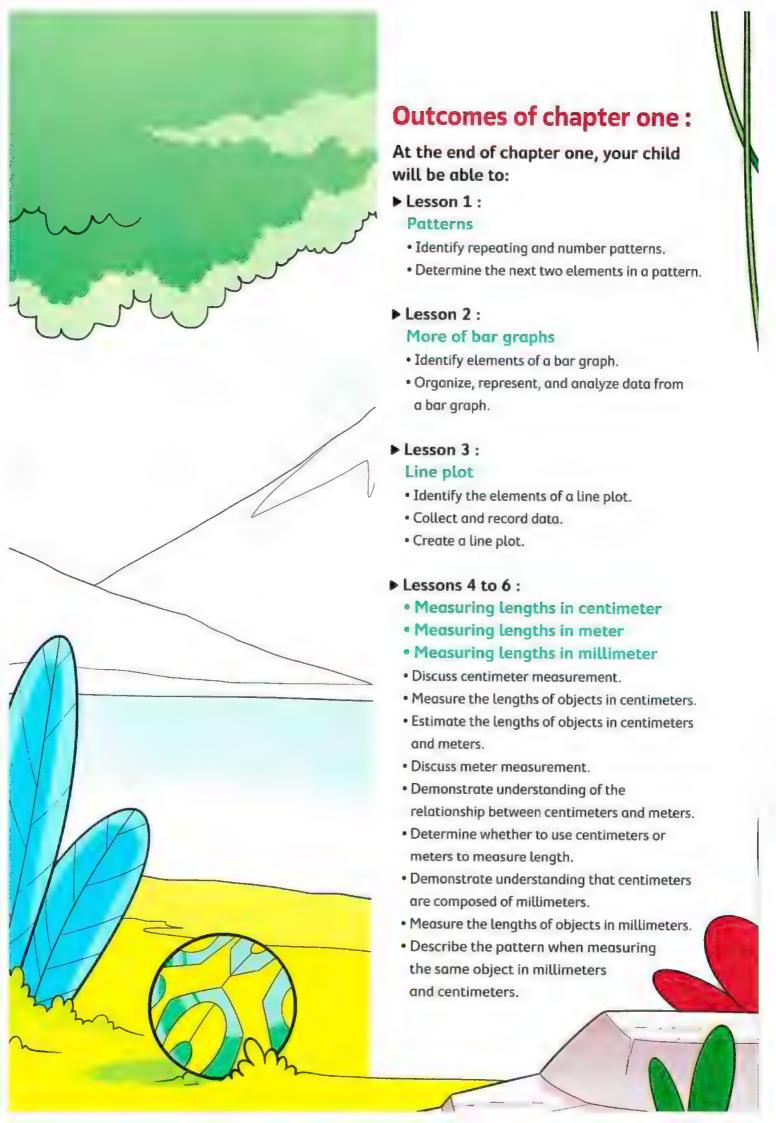




10 A fruit seller bought 67 kilograms of orange and 85 kilograms of apple.

What is the weight in all?







Patterns



Learn 1 Visual and number pattern

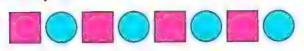
• Pattern is an ordered set of objects or numbers related to each other in a certain rule.

In this lesson you will learn two kinds of patterns.

Visual pattern

 Visual pattern is an ordered set of objects have repeated part called pattern unit.

Example:



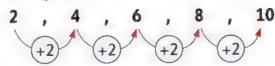
• The pattern unit is



Number pattern

 Number pattern is a list of numbers that follow a certain rule.

Example:

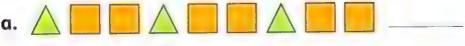


• The pattern rule is + 2

Example 1

Extend the pattern.

Extend the pattern.





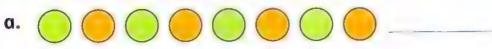








Extend the pattern.









Lesson 1

Notes for parents

• Ask your child to find examples of patterns in your home.

Example (2)

Discover the pattern rule to extend the pattern and write the rule.

- a. 10 , 20 , 30 , 40 , ——
- Rule >
- **b.** 95 , 90 , 85 , 80 , ____ , ___
- Rule ▶

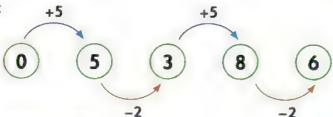
Solution 🗸

- **a.** 50 , 60
- Rule ▶ + 10
- ▶ **Note** : The numbers are getting larger.
- **b.** 75 , 70 Rule >
- Rule ▶ -5
- ▶ **Note** : The numbers are getting smaller.

Remark

 Sometimes number patterns have a rule that requires to add and subtract in the same pattern. Notice the numbers are increasing and decreasing in the same pattern.







The rule is: +5,-2

Check 🔘

Use the pattern rule to extend the pattern.



86

+3



56



-10

96

-10

-10

-10

36

66

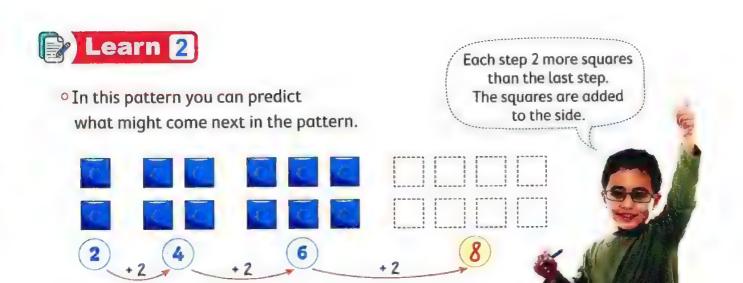
-10

-10

• Practice your child skip-counting by twos, threes, fours, fives and tens.

76

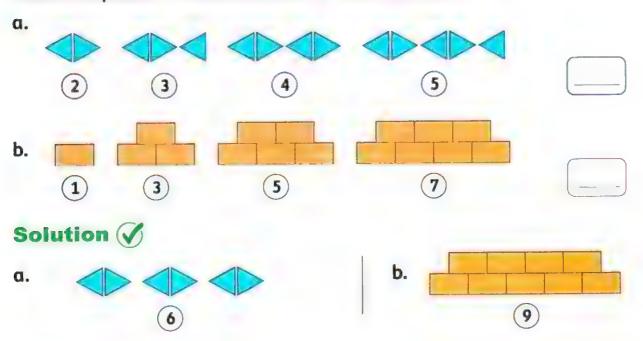
Ask your child to find the rule and follow it to complete the patterns.



Example 3

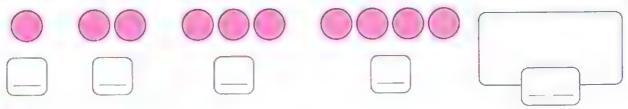
So, The next step has 8 squares.

Extend the pattern. Write the number of items you draw.



Check 🔘

Draw what might come next in the pattern. Write the number of items in each step.





Notes for parents

16 · Help

Help your child build a pattern using small objects such as: dry pasta.



Patterns

From the school book

1 Extend the pattern.







- Work area

2 Discover the pattern rule. Write the missing numbers and the rule.

a. 20 , 22 , 24 , 26 , — , —

b. 70 , 65 , 60 , 55 , —— , ——

c. 83 , 73 , 63 , 53 , —— , ——

d. 12 , 23 , 34 , 45 , —— ,

e. 21 , 31 , 41 , 51 , —— , ——

f. 49 , 46 , 43 , 40 , _____

Rule

3 Find the rule. Complete in the same pattern.

a. 1 30,40,50,60,70, ____, ___, ___, ___, ___, ___

b. 52,54,56,58, ____, ___, ___, ____

c. 39, 35, 31, 27, ____,

d. 98,88,78,68,____,

e. 33,37,41,45,____

f. 120, 125, 130, 135, ____,

g. 95,90,85,80,___,

h. 58,54,50,46,____,

i. 10,22,34,46,____,

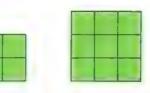
j. 24,35,46,57,____

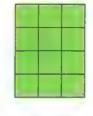
Draw what comes next in each pattern. Write the number of items in

each step.

α.









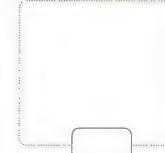










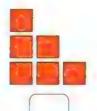


C.

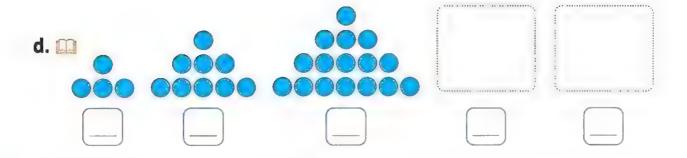












5 Color to complete the pattern.

a.



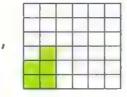


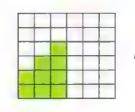


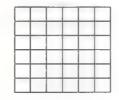




b.







c. 00000 00000







Challenge (©

6 Find the rule. Extend the pattern.

a. 30 , 35 , 33 , 38 , 36 , 41 , 39 , ____ , ___

b. 1 , 2 , 4 , 7 , 11 , ____ , ___

c. 1 , 1 , 2 , 3 , 5 , ____ , _

d. _____











More of bar graphs



Learn Tally marks, tally table and bar graph

Tally mark is a mark used to record votes or other items.

Tally marks

means 1 means 5



Tally					##
Number	1	2	3	4	5
Tally	1111	11111	##111	##	####
Number	6	7	8	9	10

• Tally table is a table uses tally marks to record data.

Example (1

This a survey about favorite time of a day. Make a tally table and then use it to make

a bar graph.

Solution 🗸

Favorite times of day					
Times of day	Tally	Number			
Morning	1	4			
Lunchtime		3			
Afternoon	##	8			
Evening	III	3			
Night time	11	2			

Tally table



hink

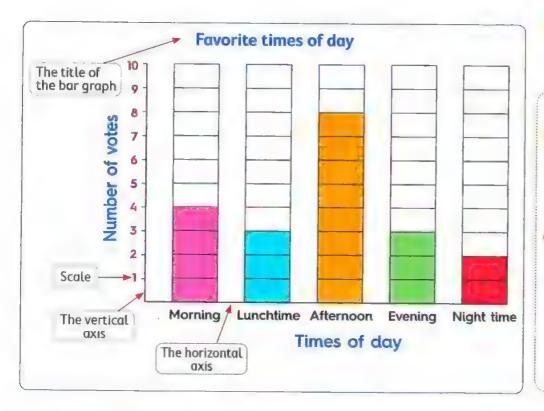
It is better to record votes by using tally table than record it by writing its name.



20

Notes for parents

 Ask your child to use tally marks to count the number of girls and the number of boys in his/her family.



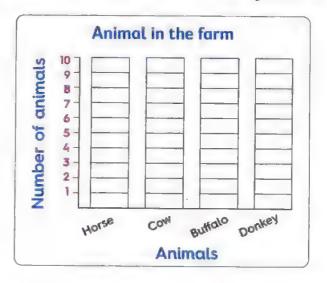


- Bar graph is a graph that uses bars to show data.
- Each bar graph has a scale which is the numbers that show the units used on a bar graph.



Complete the tally table. Color the graph to show data, then answer the questions.

Animals in the farm					
Animal	Tally	Number			
Horse	H				
Cow	HH				
Buffalo	## 111				
Donkey	111				



- What is the number of cows in the farm?
- Which animal has the least number? ______
- How many animals are there in the farm?

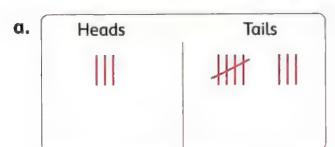
Ask your child to survey another favorite such as favorite animals and organize his/her data using tally table.



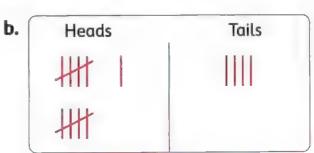
More of bar graphs

1 Here are some other tallies.

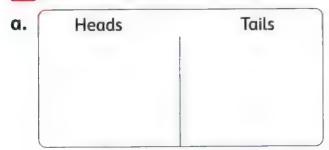
Count how many heads, how many tails, and how many in all.



- How many heads?
- How many tails ? _____
- How many in all?



- How many heads?
- How many tails ? _____
- How many in all?
- 2 Show the tallies for each chart.



- Show 7 heads.
- Show 13 tails.
- How many in all?____

- b. Heads Tails
 - Show 12 heads.
 - Show 18 tails.
 - How many in all ? _____



3 Hany made this list of the shirt colors his friends were wearing.

Make a tally table. Then answer.

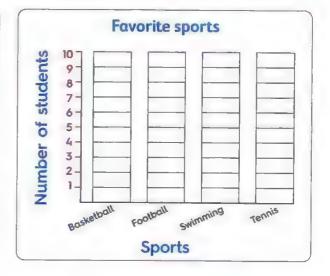
- **a.** How many children were wearing blue shirts?
- **b.** What was the color of the most shirt?
- c. List the shirt color data from the least to the greatest : ______, _____,

	Shirt color							
Blue	Red	Blue	Green					
Green	Green	Blue	Red					
Blue	Blue	Red	Blue					
Red	Red	Blue	Red					
Blue	Blue	Blue	Red					

	Shirt color	
Color	Tally	Number

4 Count the tallies. Write the total. Color the graph to show the data.

Favorite sports					
Sports	Number of students	Number			
Basketball					
Football	##				
Swimming	## 1				
Tennis					



Answer the questions:

a. How many students did vote for football?

_____ students.

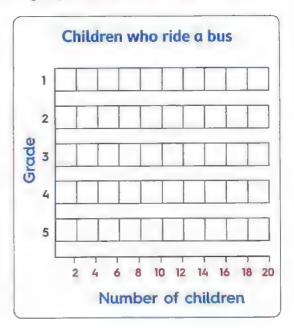
b. Which sport is favored by the most?

c. Which sport is favored by the least?



5 Count the tallies. Write the total. Color the graph to show the data.

	Children who ride a bus	5
Grade	Number of children	Number
1	###	
2	####	
3	####	
4	#####	y-2000
5	####	



1. Answer the following questions:

- a. How many children in grade 4 ride the bus to school?
- **b.** How many children in grade 3 ride the bus to school?
- c. Which grade has the most children who ride the bus?
- d. Which grade has the least children who ride the bus?

2. Put (\checkmark) to the correct statement or (X) to the incorrect statement.

- a. Number of children in grade 5 who ride bus to school is greater than number of children in grade 2 who ride bus to school.
- **b.** Number of children are equal in grade 2 and 3 who ride bus to school.
- c. Number of children in grade 3 who ride bus to school is 15
- d. Number of children in grade 1 and grade 4 who ride busto school is 60

This is a survey about our favorite season in the class.

Make a tally table and then use it to make a bar graph.



1. Answer the questions.

- a. Which season is favored by the most?
- **b.** Which season is favored by the least?
- c. How many students did vote in total?

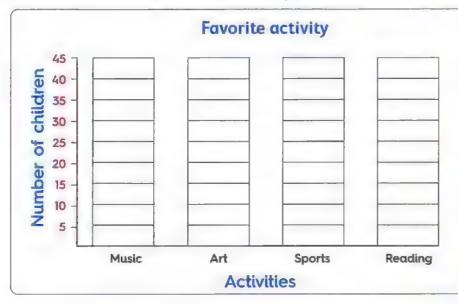
2. Put (\checkmark) to the correct statement or (X) to the incorrect statement.

- a. Number of students who liked summer is 8
- **b.** Number of students who liked fall more than winter is 3
- c. Number of students who liked spring and summer altogether is 10 ()

7 Complete the tally table, then use it to make a bar graph.

Favorite activity				
Activity	Tally	Number		
Music	#######			
Art	#######			
Sports				
Reading	#######			

• Convert the same data into a bar graph.





1. Answer following questions.

- a. How many people liked music best? _____ people.
- **b.** Which activity is liked the least?_____
- c. Which activity is liked the most?
- **d.** How many people in all liked art and sports activities? _____ people.
- **e.** How many people liked sports more than art? __ people.

2. Compare. Write ">, = or <".

- a. Number of people who liked reading. Number of people who liked art.
- **b.** Number of people who liked sports. Number of people who liked music.



26



Line plot



earn What is a line plot?

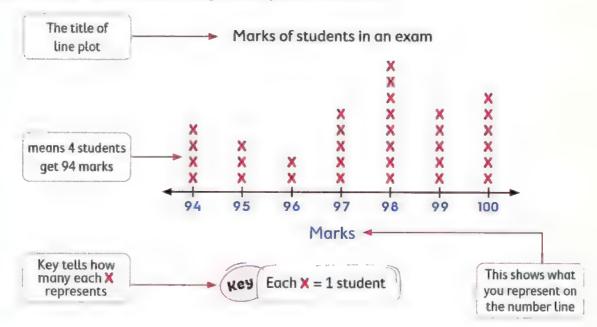
- Line plot is a graph shows how many times something happened.
- It is a graph that shows the data as X's above a number line.

Example

The following table shows the marks of students in an exam:

Marks	94	95	96	97	98	99	100
Number of students (frequency)	4	3	2	5	8	5	6

You can show these data using a line plot as follows:



From the graph:

- The number of students who get 98 marks is 8 students.
- Or The number of students who get smaller than 98 is 5 + 2 + 3 + 4 = 14 students.
- The number of students who get greater than 98 is 5 + 6 = 11 students.
- The number of students who get the highest mark is 6 students.
- The number of students who get the lowest mark is 4 students.

Notes for parents

• Tell your child that the "frequency" means how many times a piece of data appears.

Example

The following data shows the weights of 30 students in kilograms.

Make a line plot to show these data, and then answer the questions.

28	26	29	24	26	30
30	25	28	27	28	26
24	30	25	30	28	28
25	26	28	25	28	30
26	24	29	- 24	30	26

- a. How many students weight 25 kilograms?
- **b.** What is the frequency of 28 in these data?
- c. What weight has the most frequency?
- d. What weight has the least frequency?
- e. How many students weight less than 26 kilograms?
- **f.** How many students weight more than 27 kilograms? ___

Solution 🗸

To make a line plot for these data follow the following steps:

First : Determine the lowest and the greatest weight.

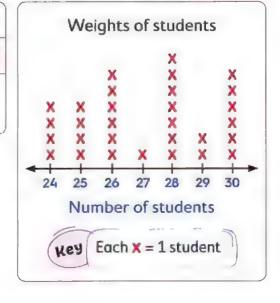
• The lowest weight = 24 kilogram.

• The greatest weight = 30 kilogram.

Second: Make a tally table shows how many times each weight appears.

Weights	24	25	26	27	28	29	30
Tallies	1111	Ш	##1		11111		##1
Number of students (Frequency)	4	4	6	1	7	2	6

- a. 4 students
- **b.** 7 students
- c. 28 kilograms
- d. 27 kilograms
- **e.** 4 + 4 = 8 students
- **f.** 7 + 2 + 6 = 15 students





The opposite data shows the number of books read by 20 children in a month, complete the tally table, and make a line plot.

He	ow man read ir			
4	5	2	3	4
6	1	4	1	5

4

5

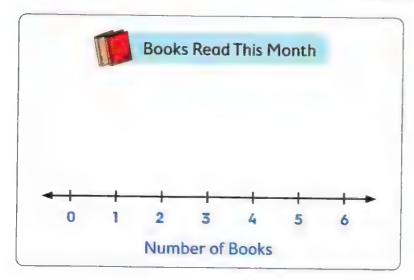
Number of books	0	1	2	3	4	5	6
Tallies							
Number of children							

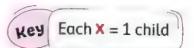
1

5

5

2





5

6

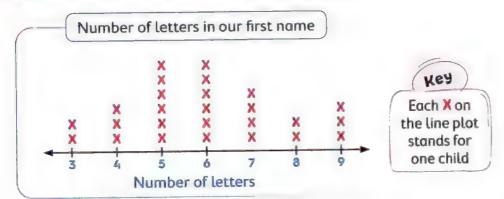
Answer the following questions:

- a. How many children read 6 books?
- **b.** How many children read 4 books?
- c. How many children did not read any book?
- d. How many children read more than 3 books?
- e. How many children read 10 books?



Line plot

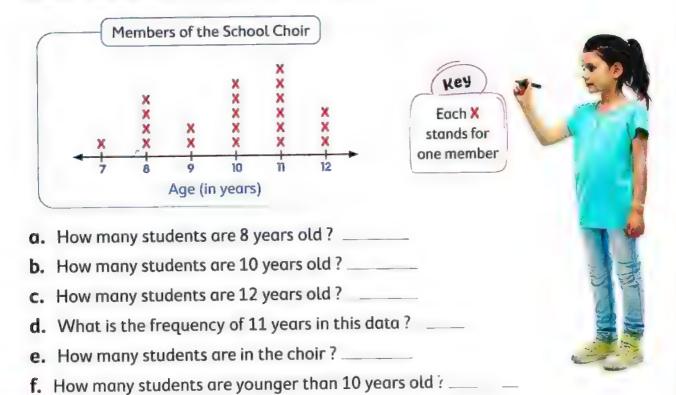
11 Use the line plot to answer the questions.



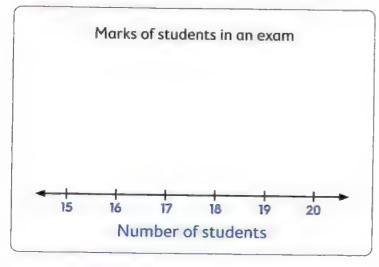
- a. How many children have 5 letters in their first name? ___ children.
- **b.** What is the smallest number of letters in a child's first name? _____letters.
- c. What is the greatest number of letters in a child's first name? _____letters.
- The data in this line plot shows the ages of a group of students in a school choir.

 The number line shows the ages of the students.

 Use the line plot to answer the questions.

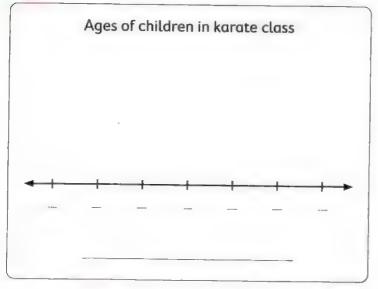


13 Use the table to draw a line plot.



Marks of s	Marks of students in an exam					
Marks	Number of students					
15	2					
16	1					
17	3					
18	5					
19	4					
20	2					

4 Use the table to draw a line plot.



Ages of children in karate class			
Age in years	Tallies		
7			
8			
9	11		
10	##1		
11			
12	11		
13			



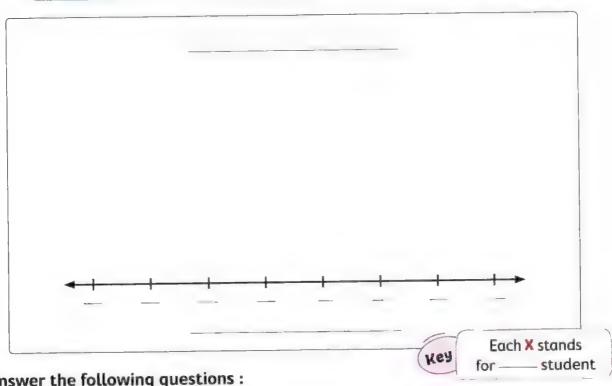
Use the line plot to answer the questions :

- a. How many children in the class are 11 years? _____ children.
- **b.** What age is the greatest number of children? _____ years old.
- **c.** How many children are in karate class in all? _____ children.

5 The following numbers are the number of study hours per week for a number of students.

15	14	17	20	21	19
20	18	19	14	16	15
21	15	18	16	19	20
14	17	19	21	20	15
16	14	15	19	21	20

Hours				
Tally				
Frequency				



Answer the following questions:

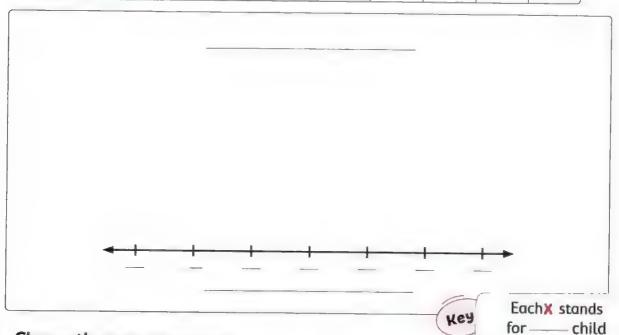
- a. How many students study 17 hr. per week? —
- **b.** How many students study 21 hr. per week? –
- c. What is the greatest number of students study a certain number of hours?
- d. What is the smallest number of students study a certain number of hours? —



6 The following numbers are the money saved by a number of children in a week in pounds.

50	60	40	30	90	80
40	50	60	70	80	90
50	70	80	90	60	50
70	50	50	60	80	50
70	60	50	40	50	80

Saved money				
Frequency		-		



1. Choose the correct answer.

- **a.** The number of children saving 90 pounds is ——— (3 or 4 or 5)
- **b.** The number of children saving the least amount of money is –

(3 or 2 or 1)

c. The greatest number of children saved — pounds. (50 or 60 or 90)

2. Put (\checkmark) to the correct statement or (X) to the incorrect statement.

a. The number of children who saved 70 pounds is 4.

b. The smallest number of children saved 50 pounds.

c. The number of all children in all is 90.

Place a smiley

face



- Measuring lengths in centimeter
- Measuring lengths in meter
- Measuring lengths in millimeter



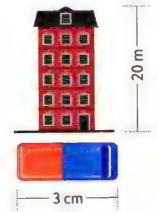
Learn 1 Length units (meter, centimeter and millimeter)

o Meter (m):

Used to measure distances and longer lengths as : buildings and buses.

• Centimeter (cm):

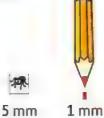
A centimeter (cm) is a small standard unit of measuring length, used to measure the length of small objects as : pencils, books and erasers.

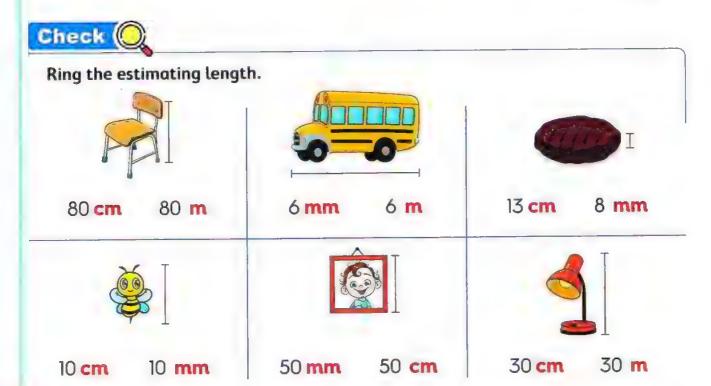


o Millimeter (mm):

- A millimeter (mm) is a very small standard unit of measuring length.

 It is used to measure the length of a very small object as the length of an insect.
- A millimeter is about the width of the point of the end of your pencil.







Notes for parents

- Ask your child to find something at home is about 5 cm in length, width or height, and another something is about 1 m
- Ask your child to find objects at home he/she can measure it in millimeter.

There are 100 centimeters in 1 meter

1 m = 100 cm

Example:

- \circ 2 m = 200 cm
- \circ 5 m = 500 cm
- \circ 8 m = 800 cm

When moving from meters to centimeters, the number gets two zeros on the end.

There are 10 millimeters in 1 centimeter

Berne III Temp

Example:

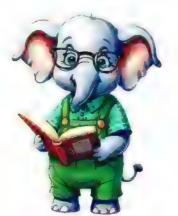
- \circ 2 cm = 20 mm
- \circ 4 cm = 40 mm
- \circ 19 cm = 190 mm

When moving from centimeters to millimeters, the number gets a zero on the end.

Example (1)

Complete.

b.
$$9 \text{ m} = ___ \text{ cm}$$



Solution 🗸



d. 280

g. 200 cm + 500 cm = 700 cm

i. 300 mm + 10 mm = 310 mm

b. 900

e. 7

c. 50

f. 12

h. 600 cm + 30 cm = 630 cm

j. 600 mm + 200 mm = 800 mm

[·] Later in this year, your child will understand that when moving from centimeters to millimeters he/she can multiply by 10.

Example 2

Compare, write ">, = or <".

- **a.** 9 cm 9 mm
- **c.** 20 cm 200 mm
- **e.** 3 m + 15 cm 315 cm

- **b.** 50 mm 5 cm
- **d.** 80 cm 90 mm
- **f.** 7 cm + 5 mm 705 mm

Solution 🗸



- **c.** 20 cm = 200 mm
- e. 3 m + 15 cm = 315 mm 300 + 15 = 315 cm

- **b.** 50 mm = 5 cm
- **d.** 80 cm > 90 mm
- **f.** 7 cm + 5 mm < 705 mm 70 + 5 = 75 mm

Check 🔾

Complete.

$$f_{*}$$
 ____ cm = 250 mm



Notes for parents

Let your child remember that to move from centimeter to millimeters he/she put 0 at the end of the number and to move from meter to centimeter he/she put two 0's at the end of the number.

Learn 3 How to use a ruler to measure the length of any object

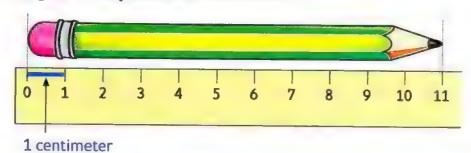
Thep 1

Line up one end of the pencil with the zero mark on the ruler.

Step 2

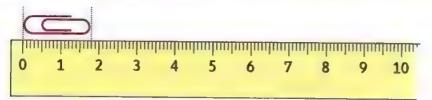
Find the centimeter mark on the ruler that is at the other end of the pencil.

• What is the length of the pencil in centimeters?

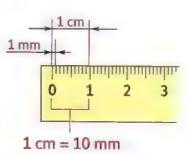


The length of the pencil is 11cm

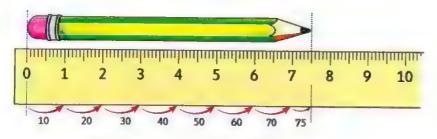
• What is the length of the paper clip in millimeters?



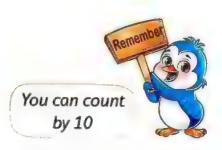
The paper clip is 18 millimeter.



• What is the length of the pencil in millimeters?



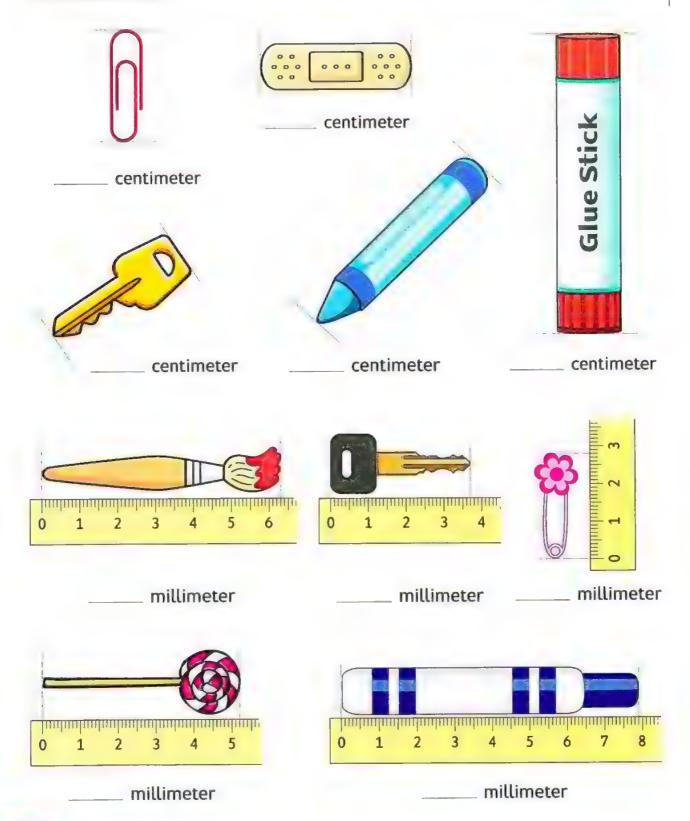
The pencil is 75 millimeter.



[·] Ask your child to measure the lengths of his/her coloring pencils then arrange them from the shortest to the longest.



Measure the length of each object. Circle the longest one and tick (\checkmark) the shortest one.



Chapter 1 Lessons 4 to 6

Notes for parents

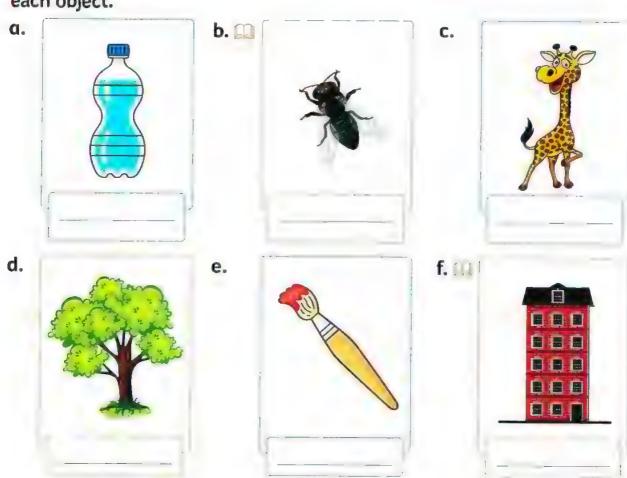
 Give your child 4 strings and ask him/her to use a ruler to measure their lengths, then put them in order from the longest to the shortest.

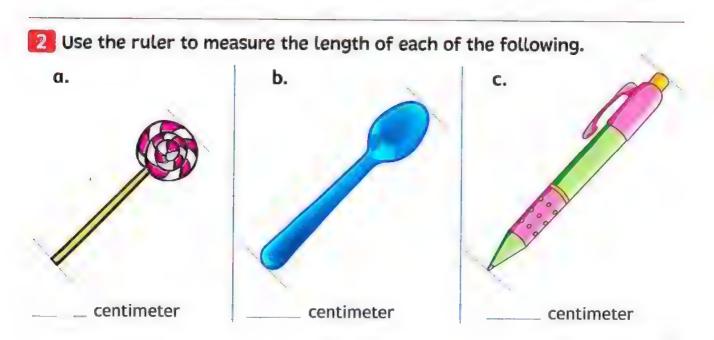


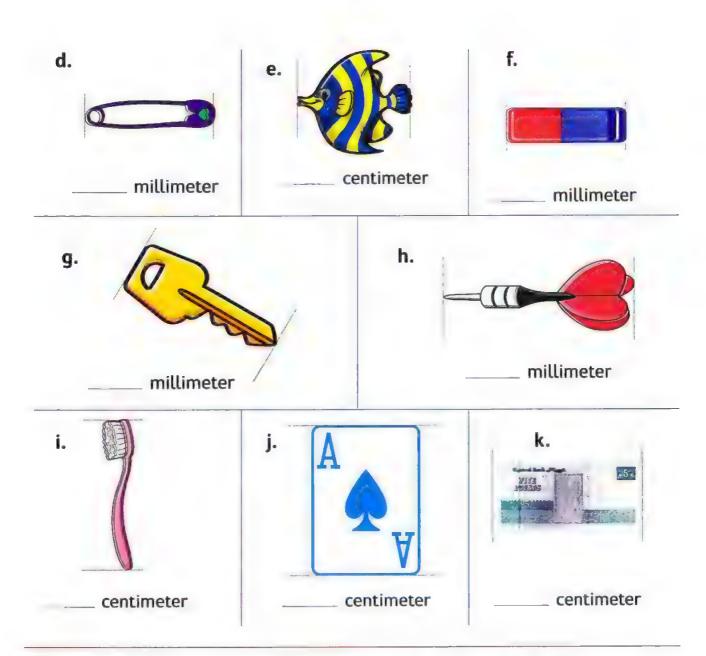
- Measuring lengths in centimeter
- Measuring lengths in meter
- Measuring lengths in millimeter

From the school book

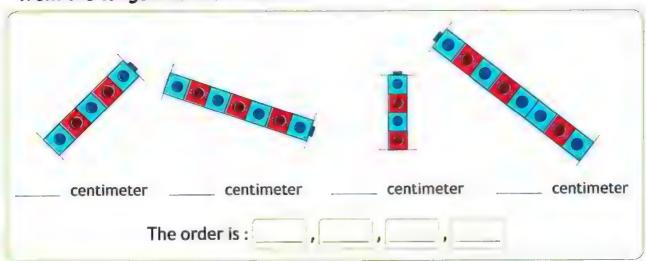
Write the suitable unit (meter or centimeter or millimeter) to measure each object.







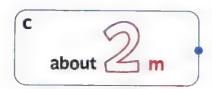
Measure the length of each stripe and write its length, then arrange from the longest to the shortest.



4 Estimate and match.

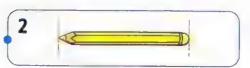


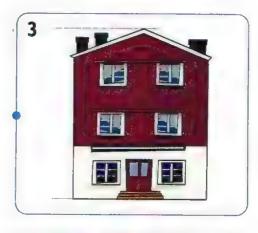














5 Put (\checkmark) to the correct statement or (X) to the incorrect statement.

 α . The length of a bus is about 5 cm

()

b. The length of your book is about 30 cm

()

c. The length of an insect is about 3 m

()

d. The length of your pen is about 15 cm

- ()
- e. Millimeter is a suitable unit to measure the length of large distances.
- ()

6 Choose the correct answer.

a. 3 cm = _____ mm

(3 or 30 or 300)

b. 24 cm = _____ mm

(240 or 40 or 200)

c. 70 mm = _____ cm

(70 or 700 or 7)

d. 500 mm = _____ cm

(50 or 5 or 55)

e. 5 m = _____ cm

(5 or 50 or 500)

f. 200 cm = _____ m

(2 or 20 or 200)

q. _____ cm = 60 mm

(600 or 6 or 60)

h. _____ mm = 7 cm

(7 or 70 or 700)

7 Complete.

a. 7 cm = ____ mm

c. 4 m = ____ cm

e. 18 cm = ____ mm

g. _____ m = 500 cm

i. _____ cm = 40 mm

k. 10 cm = _____ mm

m. 2 cm + 5 cm = ____ mm

o. $5 \text{ m} + 3 \text{ m} = \underline{\hspace{1cm}} \text{ cm}$

q. 70 mm + 10 mm = ____ cm

s. 350 cm = ____ m + ___ cm

b. 3 cm = _____ mm

d. 8 m = ____ cm

f. 50 cm = _____ mm

h. 300 cm = ____ m

j. 200 mm = ____ cm

l. 10 mm = ____ cm

 $n. 4 cm + 2 cm = ____ mm$

p. 4 m + 2 m =____ cm

r. 20 mm + 70 mm = ____ cm

t. 75 mm = ____ cm and ____ mm

8 Put (\checkmark) to the correct statement or (X) to the incorrect statement.

- **a.** 1 m = 100 cm
-)
- **b.** 90 mm = 9 cm
- ()

- **c.** 30 cm = 300 mm
-)
- **d.** 500 cm = 50 m
- ()

- **e.** 1 cm and 2 mm = 12 mm ()
- **f.** 2 m + 6 m = 800 mm
- (

)

9 Complete using ">, = or <".

- **a.** 5 m 5 cm
- **c.** 40 mm 9 cm
- **e.** 6 cm 6 mm
- **g.** 9 mm 9 m
- i. 1 cm 100 mm
- **k.** 600 mm 6 cm
- **m.** 3 cm and 3 mm 303 mm

- **b.** 20 mm 2 cm
- **d.** 7 cm 20 mm
- **f.** 20 cm 200 mm
- h. 1 m 100 cm
- j. 20 mm 200 cm
- **l.** 30 mm + 20 mm 50 cm
- **n.** 56 mm 50 cm + 6 mm

Challenge (6)

10 Ring the longest length.

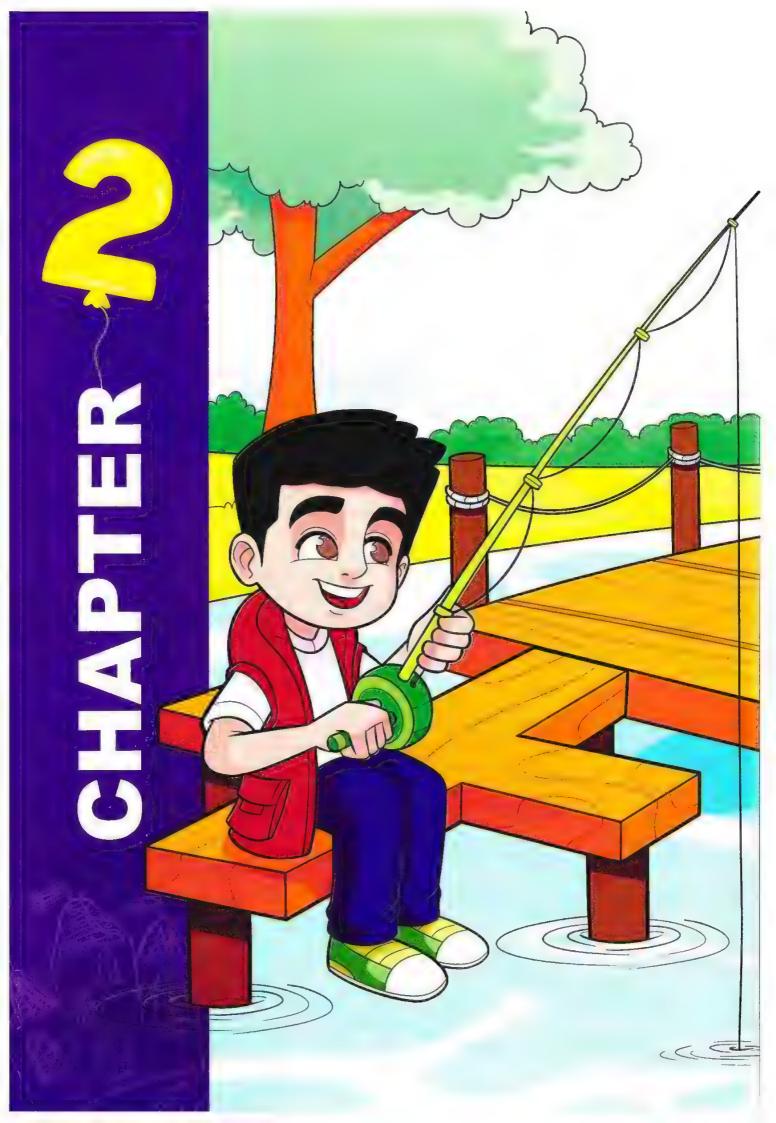
90 mm 88 cm 100 mm 90 cm

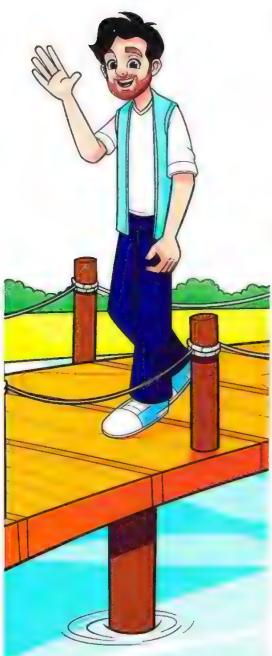
11 Complete.

- **a.** $4 \text{ cm} + \underline{\hspace{1cm}} \text{mm} = 70 \text{ mm}$
- **c.** $90 \text{ mm} \underline{\hspace{1cm}} \text{mm} = 2 \text{ cm}$
- **e.** $5 \text{ m} \underline{\hspace{1cm}} \text{cm} = 300 \text{ cm}$

- **b.** $10 \text{ mm} + \underline{\hspace{1cm}} \text{mm} = 3 \text{ cm}$
- **d.** $8 \text{ cm} \underline{\hspace{1cm}} \text{cm} = 20 \text{ mm}$
- **f.** _____ m + 40 cm = 540 cm







Outcomes of chapter two:

At the end of chapter two, your child will be able to:

▶ Lessons 1 & 2 :

- Thousands
- More of Thousands
- Explain how the value of a digit can change based on its place value.
- Apply strategic thinking to construct a four-digit number with a high value.
- Read and write numbers up to the Thousands place in standard form.
- Read and write numbers up to the Thousands place in expanded form.
- Create visual models of numerical value.
- Compare numbers using symbols.

▶ Lessons 3 & 4 :

- Ten Thousands Hundred Thousands
- Numbers in different forms
- Read and write numbers up to the Hundred Thousands place.
- Compare and order numbers up to the Hundred Thousands place.
- Skip count by 2s, 3s, 5s, or 10s.
- Read and write numbers up to the Hundred Thousands place in standard form.
- Read and write numbers up to the Hundred Thousands place in expanded form.
- Order a series of numbers up to the Hundred Thousands place.

Lesson 5:

- Arrays
- Use a variety of strategies to calculate the total number of items in an array.
- Solve repeated addition problems.

Lesson 6:

- Multiplication
- · Compare arrays to equal groups.
- Explain how repeated addition and multiplication equations are related.
- Explain products of whole numbers.
- Compare two products using greater than, less than, and equal to symbols.

Lesson 7:

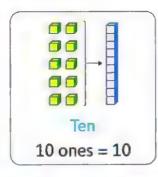
- Commutative property in multiplication
- Solve multiplication problems using arrays.
- Investigate the Commutative Property of Multiplication using arrays.
- Create arrays to model the Commutative Property of Multiplication.
- Explain multiplication and the Commutative Property of Multiplication.

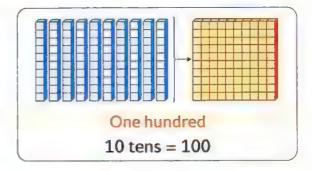
Lessons

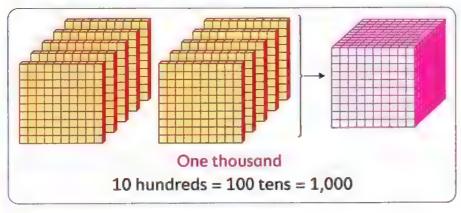
- Thousands
- More of Thousands

Learn 1 Exploring thousands









Math tip

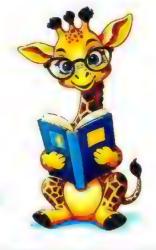
A comma (1) is used to separate the thousands and the hundreds



- 2,000 (two thousands) = 20 hundreds = 200 tens.
- o 3,000 (three thousands) = 30 hundreds = 300 tens.

Remarks

- 9 is the greatest 1-digit number 10 is the smallest 2-digit number
- o 99 is the greatest 2-digit number 100 is the smallest 3-digit number
- 999 is the greatest 3-digit number 1,000 is the smallest 4-digit number



Chapter 2

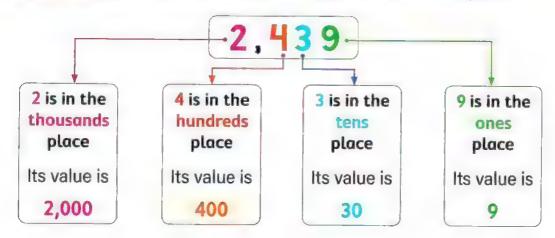
Lessons 1 & 2

Notes for parents



• The value of each digit in any number depends on its place in this number.

Example: Notice the value of each digit in the number 2,439



How do you write and read 4-digit numbers?

Place value chart :

	.2,4	3 9.	
V	•	1	
housands	Hundreds	Tens	Ones
2	4	3	9
2,000	400	30	9

Place value mat :

Thousands	Hundreds	Tens	Ones
2	4	3	9

• Standard form: 2, 4 3 9

 \circ Expanded form: 2,000 + 400 + 30 + 9

• Word form : Two thousand, four hundred thirty-nine

Math tip The expanded form is adding the value of each digit in the number

[•] Help your child use the expanded form as a way to read the number for example : (2,000+600+30+4) is read as two thousand, six hundred thirty-four.

Example (1)

Write the place value and the value of the colored digit.

Place value

Value

Place value **b.** 7,282

Place value

Value

a. 5,839

c. 2,106

d. 5,018

Solution 🗸



Place value Value

b. Tens Value 80

C.

Thousands

Ones

5,000

6

Hundreds

0

Example (2)

Write each of the following in standard form.

a.
$$4,000 + 500 + 60 + 7 =$$

- e. Three thousand, five hundred thirteen = _____
- **f.** 9 thousands, 5 hundreds and 8 ones = _____

Solution 🗸



a. 4,567

b. 7,408

c. 6,059

d. 8,060

e. 3,513

f. 9,508

Example (3)

Complete.

Solution 🗸

a. 5

b. 70

c. 800

d. 4

e. 90

f. 5,000

Check (

1. Choose the correct answer.

a. The value of the digit 4 in the number 5,430 is _____

A. 4

B. 40

C. 400

D. 4,000

b. The place value of the digit 3 in the number 3,506 is ____

A. Ones

B. Tens

C. Hundreds

D. Thousands

c. The value of the digit 0 in the number 9,502 is _____

A. 0

B. 10

C. 100

D. Tens

d. 7,000 + 500 + 2 =

A. 752

B. 7,250

C. 7,502

D. 7,520

e. 8 thousands, 6 tens and 3 ones = ____

A. 863

B. 8,063

C. 8,603

D. 8,630

f. Three thousand, six hundred seven =

A. 367

B. 3,067

C. 3,607

D. 3,670

2. Complete.

a. 3,000 = _____ thousands

c. 4 thousands = _____ tens

e. 1,000 = _____ ones

g. ____ = 700 tens

i. 20 hundreds = ____ thousands

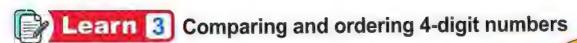
b. 2,000 = _____ tens

d. ____ = 6 thousands

f. 600 tens = _____ hundreds

h. ____ = 8,000 ones

j. ____ hundreds = 3 thousands



How do you compare 4-digit numbers?

Compare 4,593 and 176

4,593 has more digits than 176\$0, 4,593 is greater than 176

4,593 > 176

When comparing numbers, the number which has more number of digits is the greater.

Compare 3,462 and 3,489

o 3,462 and 3,489 have the same number of digits, so:

Third: Compare Second: Compare First: Compare the tens digits the hundreds digits the thousands digits 3,462 3,462 3,462 3,489 3,489 3,489 The digits The digits 6 < 8 are the same are the same

So, 3,462 is smaller than 3,489

3,462 < 3,489

How to create the greatest and the least 4-digit number ?

The digits are (4), (5), (9) and (1)



To create the greatest 4-digit number from given digits, arrange the digits from greatest to least.

The order is : 9541

So, the greatest number is: 9,541

To create the least 4-digit number from given digits, arrange the digits from least to greatest.

The order is : 1459

So, the least number is: 1,459

Hint:

Do not put the 0 digit in the highest place value. It will be 3-digit number.

G

For example: • The greatest 4-digit number formed from 6, 7, 0, 1 is 7,610

• The least 4-digit number formed from 6,7,0,1 is $\boxed{1,067}$



50

Notes for parents

Ask your child to tell you a number greater than 4,321 and another number less than 8,765.

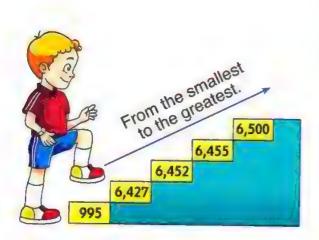
Ask your child to explore the greatest 4-digit number. (he/she should answer: 9,999).

Ordering numbers

ASCENDING

Ascending order is ordering numbers from the smallest to the greatest.

· For example :

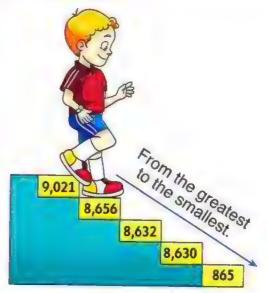


995, 6,427, 6,452, 6,455 and 6,500 are arranged in an ascending order.

DESCENDING

Descending order is ordering numbers from the greatest to the smallest.

• For example :



9,021,8,656,8,632,8,630 and 865 are arranged in a descending order.

Check (

- 1. Compare, write "> , < or =".
 - a. 3,251
- (
- 3,251
- c. 2,800
- C
- 999

- **b.** 7,365
- 7,356
- d. 30 hundreds
- - 3,000
- 2. Write the greatest and the smallest number formed from the digits : 7, 2, 5 and 1
 - The greatest : ____

- The smallest :
- 3. Arrange the following numbers in an ascending order.

7,351

3,751

1,753

(5,173)

-- , ---

- , _____

4. Arrange the following numbers in a descending order.

1,111

999

1,000

1,023

--- , ----- ,



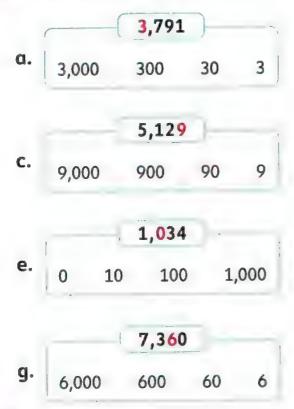
- Thousands
- More of Thousands

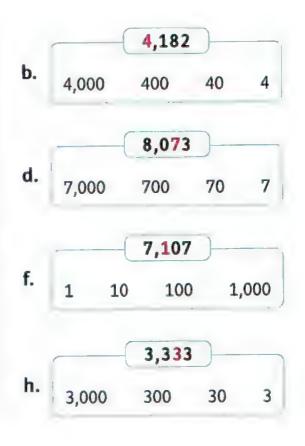
From the school book

1 Complete the table.

	Number	Thousands	Hundreds	Tens	Ones
a.	5,839				
b.	7,256				
c.	2,103				
d.	4,360				
e.	5,018				
f.	918				

2 Circle the value of the red digit.





3 Write the place value and the value of the colored digit.

	place value	value		place value	value
a. 3,791			b. 6,129		
c. 4,182			d. 8,063		
e. 5,629			f. 1,034		
g. 7,1 <mark>0</mark> 7			h. 2,560		
i. 5,431			j. 9,287		
k. 3,030			l. 2,222		

4 Write the following numbers in expanded form.



[5] Write in standard form.

- **a.** 2,000 + 600 + 30 + 4 =
- **c.** 4,000 + 500 + 90 + 3 =
- **e.** 20 + 1 + 6,000 = _____
- $\mathbf{g} \cdot 600 + 7,000 + 50 = \underline{}$
- i. 1,000 + 900 = _____

- **b.** 1 + 70 + 800 + 6,000 =
- **d.** 3,000 + 300 + 9 = _____
- **f.** 10 + 100 + 1,000 =
- **h.** 5 + 9,000 = _____
- j. 5,000 + 40 = ____

6 Write in expanded form and standard form.

a. 8 thousands, 4 hundreds, 9 tens and 1 one



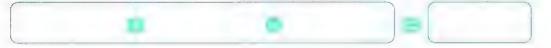
b. 2 thousands, 1 hundred, 7 tens and 5 ones



c. 7 ones , 5 hundreds , 3 thousands and 2 tens



d. 9 thousands, 7 hundreds and 2 ones



e. 1 thousand and 48 ones



f. 5 hundreds, 4 thousands and 3 ones



q. 7 hundreds, 5 thousands and 16 ones



h. 4 tens, 3 thousands and 6 ones



7 Write the missing numbers.

a.
$$2,753 =$$
 + $700 + 50 + 3$

b.
$$=3,000 + 3$$

e.
$$9,462 = 9,000 + ____ + 60 + 2$$

g.
$$3,781 = 1 + \underline{\hspace{1cm}} + 700 + \underline{\hspace{1cm}}$$



- **a.** Five thousand, three hundred seventy-eight
- **b.** Two thousand, five hundred thirty-one
- c. Nine thousand, four hundred six
- d. One thousand, fifty-four
- e. Three thousand, two
- f. Four thousand, forty
- **g.** Two thousand, seventeen
- h. Eight thousand, five hundred



9 Write the following in the word form.

a. 3,751 _____

b. 4,004

c. 7.200

d. 6,510 _____

e. 5,000 + 300 + 10 + 7

f. 8,000 + 80

g. 5 thousands , 3 hundreds and 26 ones

h. 2 thousands and 2 tens

10 Complete.

 \mathbf{a} . 6,000 = - thousands.

c. 7,000 = — tens.

e. 500 tens = ——— thousands.

g. 30 hundreds = _____tens.

i. _____ = 4,000 ones.

b. 2,000 = _____ hundreds.

d. 80 hundreds = _____ thousands.

f. 900 tens = _____ hundreds.

h. _____ tens = 8 hundreds.

j. _____ = 800 tens.

11	Co	mpare, wr	ite ">	, < or =".			
	a.	3,291		3,591	b. 🕮 8,903		9,038
	c.	6,534	}	6,544	d. (1,342	t	1,302
	e.	711		7,110	f. 2,691		948
	g.	<u>2,345</u>		2,344	h. 📖 7,878		7,787
i	i.	8,651		1 + 50 + 600 + 8,000	j. 3,000 + 300 + 30	, ,	3,333
ĺ	k.	9,205		Nine thousand, two hu	ndred fifty.		
(Ĺ.	5,168	()	5 thousands + 1 hundr	ed + 6 tens + 7 ones		
	m.	9 thousand	ds , 2 h	undreds and 5 ones	9,000 + 200 + 50		
,	า.	6 thousand	ds (60 hundreds			

Write the greatest and the least 4-digit number from the given digits.

9 hundreds

o. 90 tens

	Digits	Greatest 4-digt number	Least 4-digit number
		areacese + dige number	Least 4-aight humber
a.	4, 3, 9, 8		
b.	5,2,3,4		
c.	5,1,6,8		
d.	4,4,7,5		
e.	3,0,2,7		
f.	0,3,4,9		

13 Write the numbers in an ascending order.

a. 6,987

6,978

7,896

987

b. 4,782

3,521

9,835

5,336

c. 1,281

993

4,621

6,170

2,990

d. 4,279

7,942

784

4,278

7,249

14 Write the numbers in a descending order.

a. 5,300

1,050

1,500

3,805

b. 7,321

941

6,541

9,541

c. 456

1,938

2,605

5,719

3,010

d. 5,441

6,204

2,917

708

3,009

Chapter 2

15 Complete.

- **a.** The place value of the digit 6 in the number 5,632 is _____
- **b.** The value of the digit 9 in the number 9,304 is $_$
- c. The greatest 4-digit number is _____
- **d.** The smallest 4-digit number is _____
- e. The greatest 4-different digit number is _____
- f. The smallest 4-different digit number is _____
- **g.** The smallest 4-same digit number is _____
- h. The greatest 4-digit even number is _____



16 Put (\checkmark) to the correct statement or (X) to the incorrect statement.

- a. 30 hundreds = 3 thousands
- **b.** The place value of the digit 7 in the number 7,469 is Thousands ()
- c. The value of the digit 5 in the number 5,367 is 500
- **d.** 9,000 + 40 + 500 + 6 = 9,456
- **e.** 7,465 > 7,456
- **f.** 2,409 = 2 thousands, 4 hundreds and 9 tens (
- g. The smallest 4-digit number formed from 9,6,0 and 3 is 369

Challenge (©

By using the digits 5, 3, 2 and 4 Form 3-different numbers each of them is greater than 5,000

18 What does 23 hundreds and 19 ones equal?



Lessons 3 & 4

- Ten Thousands Hundred Thousands
- Numbers in different forms

Learn

5-digit and 6-digit numbers

How do you write and read 5-digit numbers in different forms?

Place value chart :

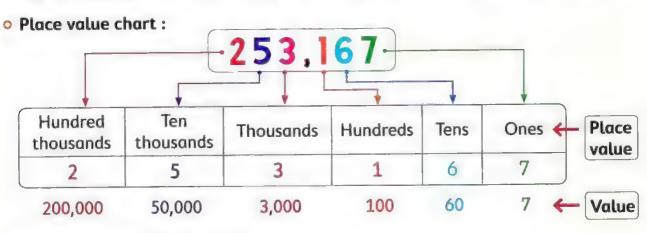
0 1	ruce value char		3,167-			
	1	T		•	<u> </u>	
	Ten thousands	Thousands	Hundreds	Tens	Ones ←	
	5	3	1	6	7	value
	50,000	3,000	100	60	7 ←	- Value

Standard form: 5 3, 1 6 7

 \circ Expanded form: 50,000 + 3,000 + 100 + 60 + 7

O Word form: Fifty-three thousand, one hundred sixty-seven

How do you write and read 6-digit numbers in different forms?



• Standard form: 2 5 3, 1 6 7

 \circ Expanded form: 200,000 + 50,000 + 3,000 + 100 + 60 + 7

O Word form: Two hundred fifty-three thousand, one hundred sixty-seven

Chapter 2

Notes for parents

Let your child discover what is the result of adding.
1 to 9,999 (10,000) and adding 1 to 99,999 (100,000).

Example (1

Write the place value and the value of the colored digit.

	Number	Place value	Value
a.	34,761		
b.	259,613		
c.	84,179		
d.	256,341		

Solution 🗸



- a. Ten thousands / 30,000
- **b.** Hundred thousands / 200,000
- **c.** Thousands / 4,000
- d. Hundreds / 300

Example (2)

Write each of the following in standard form.

- **a.** 300,000 + 50,000 + 4,000 + 900 + 80 + 1 =
- **b.** 70,000 + 7,000 + 7 =
- **c.** 300 + 1,000 + 40,000 + 60 + 700,000 =
- **d.** Two hundred sixty-five thousand, one hundred seventeen =
- **e.** Forty-one thousand, five hundred six =

Solution 🗸



a. 354,981

b. 77,007

c. 741,360

d. 265,117

e. 41,506

Check (

Complete.

- **a.** The place value of the digit 4 in the number 341,698 is _
- **b.** The value of the digit 7 in the number 716,409 is $_$
- c. The value of the digit 2 in the number 24,690 is _
- **d.** The place value of the digit 5 in the number 576,321 is _
- **e.** 900 + 30,000 + 600,000 + 4 =
- **f.** 7 ten thousands + 4 thousands + 6 hundreds + 2 ones = $\frac{1}{2}$
- Ask your child to discover the greatest and the least 5-digit numbers (his/her answer should be : 99,999 & 10,000)
- Also the greatest and the least 6-digit numbers (his/her answer should be: 999,999 & 100,000)



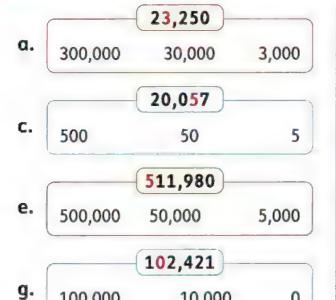
- Ten Thousands Hundred Thousands
- Numbers in different forms

From the school book

11 Circle the correct digit in the number according to its place.

a.	Ten thousands	65,810	b.

2 Circle the value of the red digit.





3 Write the place value and the value of the colored digit.

0

10,000





100,000

4 Complete.

- **a.** The place value of the digit 5 in the number 513,627 is ____
- **b.** The value of the digit 7 in the number 764,210 is
- **c.** The place value of the digit 0 in the number 904,362 is
- **d.** The value of the digit 0 in the number 904,362 is
- e. The digit which represents the ten thousand in the number 356,217 is ____
- **f.** The digit which represents the hundred thousand in the number 598,631 is _____
- **g.** If the value of a digit is 500,000, then its place value is _____
- **h.** If the value of a digit is 30,000, then its place value is

5 Write the following in standard form.

- a. Thirty-one thousand, five hundred seventy-four = _____
- **b.** Two hundred seventy-eight thousand, six hundred twenty-one =
- **c.** Three hundred eight thousand, ten =
- **d.** 5 hundred thousands , 4 thousands and 3 tens =
- e. 9 ten thousands , 7 thousands , 2 hundreds and 5 ones = ____
- **f.** 3 hundred thousands + 3 ten thousands + 3 hundreds = _____

g.
$$30,000 + 9,000 + 400 + 10 + 5 =$$

h.
$$60,000 + 8,000 + 90 + 2 =$$



6 Write in expanded form.

Write the missing numbers.

$$\alpha$$
. 95,683 = _____ + 5,600 + 80 + 3

c.
$$78,465 = 65 + 400 + ____ + 70,000$$

d.
$$43,092 = 2 + 90 + ____ + 3,000$$

e.
$$670,341 =$$
 + $70,000 + 340 +$ -

f.
$$102,637 =$$
 + $+ 600 + 30 + 7$

$$\mathbf{g.} \quad \underline{} = 200,000 + 10,000 + 564$$

j.
$$= 900,000 + 5,000 + 17$$
 k. $= 16,000 + 400 + 39$

8 Write the following in the word form.

a. 235,791 ______

b. 904,006

c. 71,071 _____

d. 60,606 ______

e. 700,000 + 40,000 + 6,000 + 90

f. 50,000 + 4,000 + 300 + 20 + 9

g. 7 hundred thousands, 9 thousands and 5 tens

h. 8 ten thousands, 6 hundreds and 36 ones

Match.

a. The value of the digit 5 in the number 351,267

b. The place value of the digit 5 in the number 576,423

c. The place value of the digit 5 in the number 157,630

d. The value of the digit 5 in the number 521,679

e. 5,000 + 500,000 + 5 + 50

f. 500,000 + 50,000 + 500 + 50

Hundred thousands

50,000

500,000

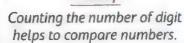
Ten thousands

550,550

505,055

10 Compare, write "> , < or =".

Math tip



a.	48.	.047

49,123

b. 175,362

175,290

c. 322,647

322,467

d. 321,054

83,266

e. 526,540

526,550

f. 50,320

50,410

q. 15,000

150 hundreds

h. 7,500 hundreds

750 thousands

99,999

one hundred thousand

301,013

Three hundred one thousand, thirteen

k. 275,600

 $200,000 \pm 70,000 \pm 5,000 \pm 6$

l. 111,111

99,999

m. 555,301

555,310

n. 99,999 + 1

100,000

o. 30 hundreds

30 thousands

p. The greatest number formed from 5 digits

The smallest number formed from 6 digits

q. 72,000 + 345



70,000 + 2,300 + 45

111 Rearrange the digits to get the greatest and the least number.

Do not put the 0 digit in the highest place value.

8 2

b.

2

3

8

1

4

greatest

least

greatest

6

least

2

0

9

5

1

3

greatest

least

greatest

2

least

0

e.

7

8

0 4 f.

9

7

1

greatest

least

greatest

5

5

1 9

9 1

0

7

least

1 3

greatest

least

greatest

least

12 Write the numbers in order from least to greatest.

a. 11,493

132,567

9,372

98,505

b. 125,762

27,652

152,567

27,256

c. 833,322

833,400

8,339

83,987

83,986

The order is:

d. 965,852

932,599

965,478

93,259

96,547

The order is : ______, _____,

e. 24,571

724,072

4,720

24,270

724,172

f. 999,999

111,111

100,000

102,345

987,654

The order is : ______, _____, _____, _____, _____

13 Write the numbers in order from greatest to least.

a. 103,002

3,201

23,001

21,300

The order is : ______, ____, ____, _____, _____,

b. 11,112

101,559

59,002

21,052

c. 81,236

618,765

38,472

637,961

773,550

The order is:

f. Th	ne smallest	5-different digit 5-digit number i	s 11,111		(
g. Th	ne place val	ue of the circled	·	mber 7 5,621 is	(
	undred thoune value of t	usands the circled digit i	in the number 🤈	52,634 is 700,0	000 (
		the circled digit i			000 (
	e tne num 99,999	716,012	greater than 2	200,000	

Lesson 5

Arrays



Arrays have horizontal rows and vertical columns.

- In this array :
 - Number of rows :
 - Number of columns :



- You can write:

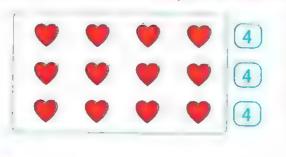
3 rows of 4

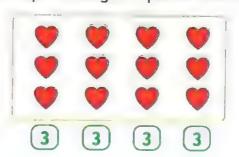
or

4 columns of 3

How to find the total number of objects using repeated addition?

To find the total number of objects in an array use skip counting or repeated addition.





First Skip counting to find the total number of array

- This array has 3 rows
 of 4 hearts.
- Skip counting by 4s three times:4,8,12 hearts.
- This array has 4 columns of 3 hearts.
- Skip counting by 3s four times:3,6,9,12 hearts.

Second Repeated addition to find the total number of array

- Number of rows = 3
- \circ Number of hearts in each row = 4
- Total number of hearts =
 - $4 + 4 + 4 = \boxed{12}$
- Number of columns = 4
- \circ Number of hearts in each column = 3
- Total number of hearts =

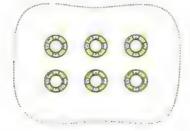
3+3+3+3=[12]

Notes for parents



Write the repeated addition and skip counting steps to find the total of each of the following.

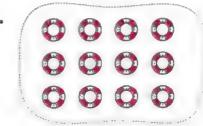
a.



Repeated addition:

Skip counting:

b.



Repeated addition:

Skip counting:

C.



Repeated addition:

Skip counting:

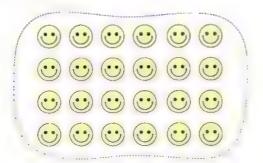
d



Repeated addition:

Skip counting: ____

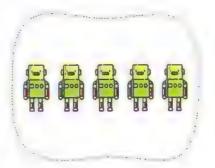
e.



Repeated addition : _____

Skip counting :

f.



Repeated addition:

Skip counting:

Chapter 2 Lesson 5

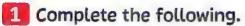
Notes for parents

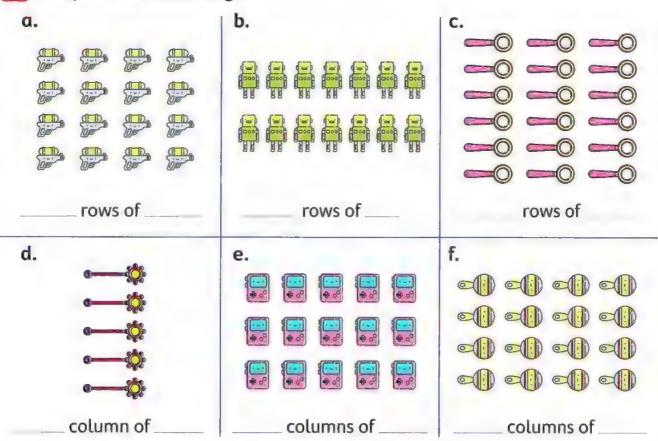
 Remind your child that rows are horizontal and go across but columns are vertical and go up and down.



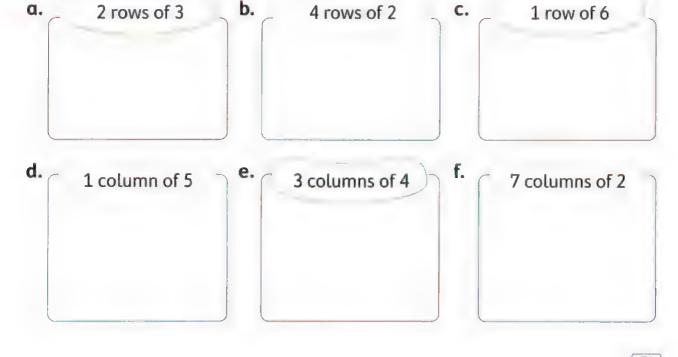
Arrays

From the school book





Create an array.



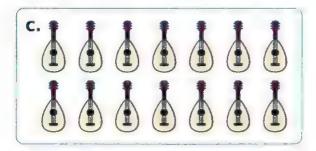
3 Find the total items of each array using skip counting strategy.



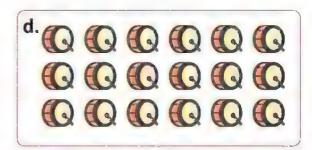
The total =



The total = _

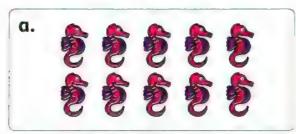


The total =



The total =

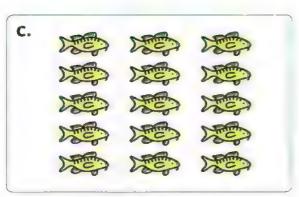
4 Look at each array. Complete.



___ equal rows ____ in each row in all.

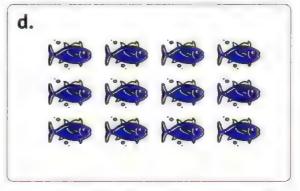
b.

____ equal columns ____ in each column ____ in all.



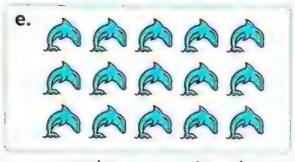
___ equal rows ____ in each row

____ in all.



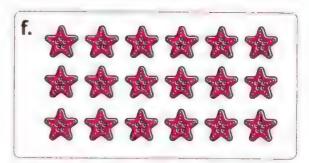
equal columns ____ in each column ____ in all.





_equal rows ____ in each row

____ in all.



equal columns _____ in each column _____ in all.

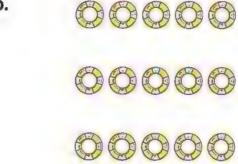
5 Complete the following.

a. 🛄



- Number of rows = _____
- Number of stars in each row = _____
- Total number of items = _____

b.



- Number of columns =
- Number of items in each column =
- Total number of items =

C.



- Number of rows =
- Number of items in each row =
- Total number of items =

d. 🕮



- Number of columns = _____
- Number of stars in each column = ____
- Total number of stars = _____

6 Write the repeated addition and skip counting steps to find the total.



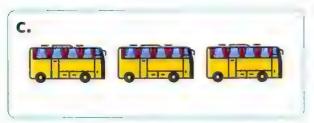
Repeated addition:

Skip counting:



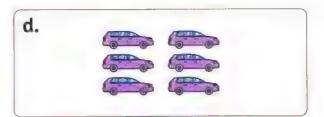
Repeated addition:

Skip counting:



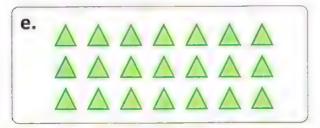
Repeated addition:

Skip counting:



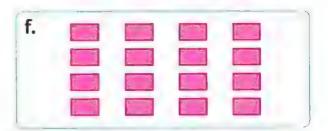
Repeated addition: ___

Skip counting:



Repeated addition:

Skip counting:



Repeated addition:

Skip counting :

Challenge (©

7 📖 Look at the opposite star array.

Some of the stars have been ripped off.

How many stars were in the original array?

Explain your thinking using pictures, numbers, or words.



Lesson

Multiplication



Learn 1 Multiplication as repeated addition

• There are 3 equal groups of 5 flowers

Equal groups are groups that have the same number of items.

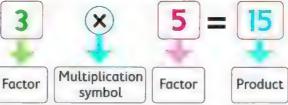


You can use repeated addition to find the total.

$$5 + 5 + 5 = 15$$
 Addition sentence

When you put together equal groups, you can also use multiplication

What you write:



3 times 5 equals 15 What you say:

one of the numbers

multiplied.

Multiplication sentence

 Product the number obtained when multiplying.

Example (1

Write an addition sentence and a multiplication sentence to find the total.





- Repeated addition : + + = —
- Multiplication : $\times = -$
- Repeated addition : + + + = —
- Multiplication : $\times = = -$

Notes for parents

 Use small objects. Ask your child to make 2 groups of 6. Then have your child write an addition sentence and a multiplication sentence.

Solution 🗸

Multiplication: $3 \times 2 = 6$

a. Repeated addition: 2+2+2=6 **b.** Repeated addition: 3+3+3+3=12

Multiplication: $4 \times 3 = 12$

Example (2)

Complete.

b.
$$5+5+5+5=4\times$$

Solution 🗸

a.
$$2+2+2+2+2=5\times 2=10$$

c.
$$3 \times 7 = 7 + 7 + 7 = 21$$

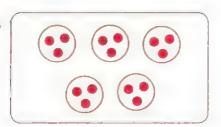
b.
$$5+5+5+5=4\times 5=20$$

d.
$$5 \times 4 = 4 + 4 + 4 + 4 + 4 = 20$$

Check (

Write an addition sentence and a multiplication sentence to find the total.

a.

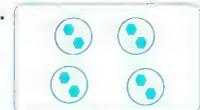


• Repeated addition:



Multiplication: — x -

b.



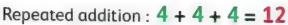
• Repeated addition:

• Multiplication : —— x -

Learn 2 How does an array show multiplication?

This array shows 3 rows of 4 cupcakes

• To find the total number of cupcakes, you can add or multiply.





Multiplication:



Say: 3 times 4 equals 12

Another way

The same array shows 4 columns of 3 cupcakes

• To find the total number of cupcakes, you can add or multiply.

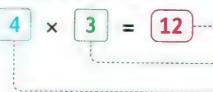
Repeated addition: 3 + 3 + 3 + 3 = 12



4 columns

3 in each column

Multiplication:



----> Product "Total"

► Number in each column

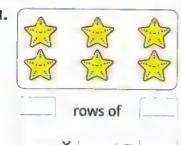
Number of columns

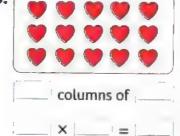
Say: 4 times 3 equals 12

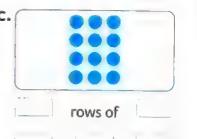
Check

Complete.

α.







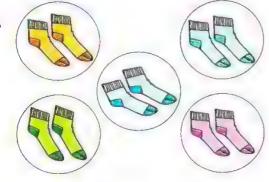
· Let your child use small objects to create an array of 5 rows of 3 and write the multiplication sentence.



Multiplication

11 Write an addition sentence and a multiplication sentence to find the total.

a.

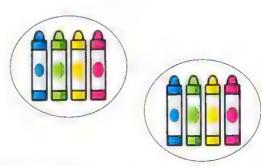


Repeated addition:



Multiplication: — × — = —

b.

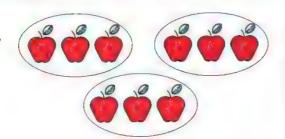


Repeated addition:

--+--=-

Multiplication: $--- \times --- = ---$

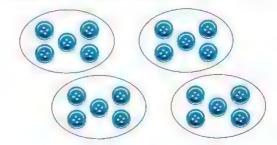
c.



Repeated addition:

Multiplication: — × — = —

d.



Repeated addition:

Multiplication: $--- \times --- = ---$

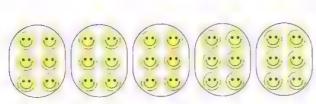
e.



Repeated addition:

Multiplication: $---\times--=$

f.

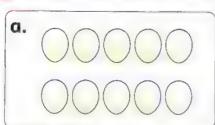


Repeated addition:

Multiplication: --- × --- = ---

Chapter 2 Lesson 6

Complete each of the following.







rows of

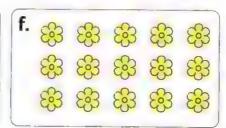
rows of







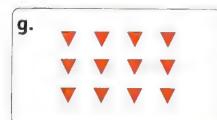


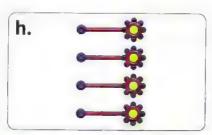


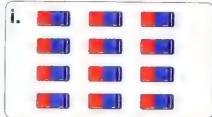
___ columns of







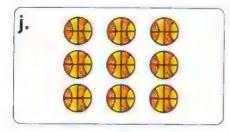


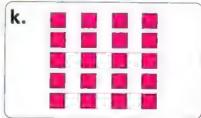


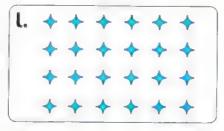
_ columns of ____

___ rows of __









rows of

rows of



3 Match each array to its sentence.



$$3 + 3 = 6$$

$$3 \times 5 = 15$$

$$4 + 4 + 4 + 4 = 16$$

$$1 \times 6 = 6$$





4 Complete.

a.
$$3+3+3+3=-\times 3=-$$

c.
$$4+4+4+4+4=-\times 4=-$$

$$m. - \times 3 = 3 + 3 + 3 + 3 + 3 + 3 = -$$

$$\mathbf{o}$$
. $- \times 8 = 8 + 8 + 8 = -$

b.
$$7 + 7 + 7 = - \times 7 = - -$$

$$f. 9+9+9+9=-\times-=-$$

h.
$$8 + 8 + 8 + 8 = - \times - = -$$

$$\mathbf{n}$$
. $5 \times 5 = -+-+-+--= -$

p.
$$5 + 5 = 2 \times - = -$$

5 Choose the correct answer.

a.
$$3+3+3+3+3=-\times 3$$

A. 3

B. 4

C. 5

D. 6

b. 4 groups of
$$2 = -$$

A. 4+2

B. 4×4

C. $2 \times 2 \times 2 \times 2$

D. 4×2

c. 2 groups of
$$9 = 9 + --$$

A. 2

B. 9

C. 18

D. 9 + 9

d.
$$2 \times 3 = 3 + -$$

A. 0

B. 1

C. 2

D. 3

e. $7 + 7 + 7 = 3 \times -$

A. 3

B. 5

C. 7

D. 9

Chapter 2

a.	2 groups of 4	b.	3 groups of 2
c.	3 groups of 3	d.	4 groups of 5
2.	2 groups of 3	f.	5 groups of 4

Build the array as the example. Write the multiplication sentence.

4 rows of 3

 $4 \times 3 = \boxed{12}$

a.

5 rows of 2

____×___=

b.

3 rows of 6

____×___=

C.

5 columns of 5

___ × ___ = [

d.

2 columns of 8

___x__=

e.

4 rows of 7

_ x ___ =

Commutative property in multiplication



Learn 1 Commutative property of multiplication "Arrays"

Commutative property of multiplication means that :

You can multiply in any order and the product is the same.

This array is 2 rows of 3

This array is 3 rows of 2

2 rows

3 in each row



Add: 3 + 3 = 6

Multiply: $2 \times 3 = 6$



2 in each row

Add: 2 + 2 + 2 = 6

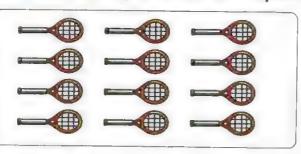
Multiply: $3 \times 2 = 6$

The factors can be multiplied in any order and their product is the same.

So,
$$2 \times 3 = 3 \times 2 = 6$$



Write how many. Write the multiplication sentences.





rows of

rows of



What did you notice?

Notes for parents

· Ask your child to use objects to show you 3 rows of 6 and 6 rows of 3 and then find how many objects in all of each.



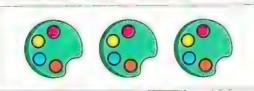
Learn 2 Commutative property of multiplication"Equal groups"

You can multiply in any order and the product is the same.

There are 3 groups of 4

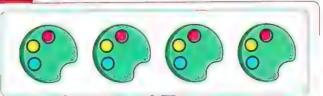


There are 4 groups of 3



Add: 4 + 4 + 4 = 12

Multiply: $3 \times 4 = 12$



Add: 3 + 3 + 3 + 3 = 12

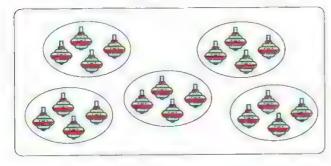
Multiply: $4 \times 3 = 12$

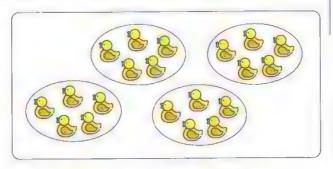
The factors can be multiplied in any order and their product is the same.

So,
$$3 \times 4 = 4 \times 3 = 12$$

Check (

Write how many. Write the multiplication sentences.





groups of ___

____ groups of ____

__ x [__] = [__]

___ × |___ = ___

What did you notice?





Notes for parents

 Ask your child to use objects to show you 2 groups of 5 and 5 groups of 2 and then find how many objects in all of each.

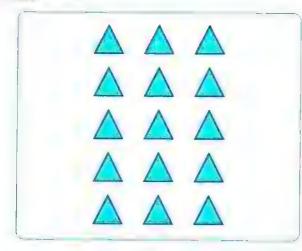


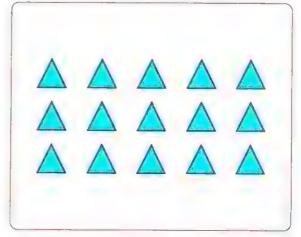
Commutative property in multiplication

From the school book

Complete the following.







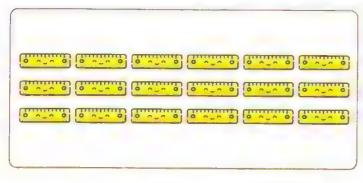
rows of ...

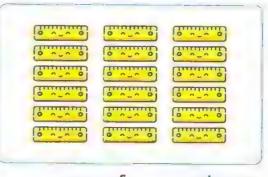
columns

rows of

columns

b.



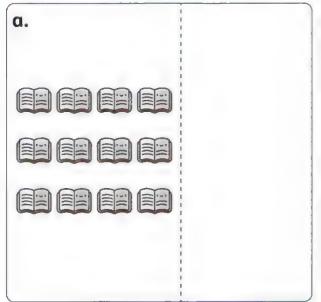


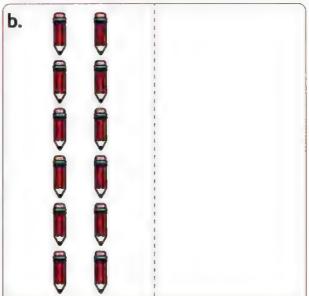
rows of _____ columns

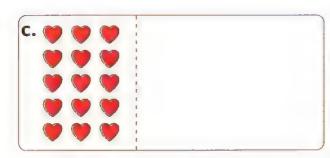
rows of _____ columns

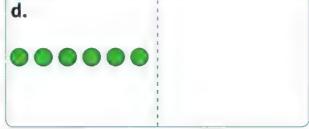


2 Write the multiplication sentence for each array. Then draw the array that shows the commutative property.



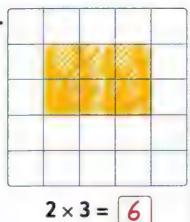




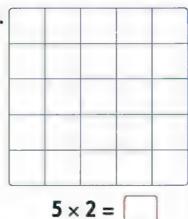


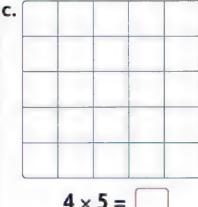
3 Draw the array on the grid according to its multiplication sentence. Write the product. The first one is done for you.

a.



b.

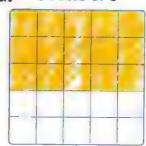




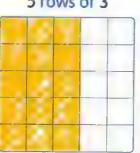
 $4 \times 5 =$

Draw the array on the grid according to its multiplications sentence. Then draw the array that shows the commutative property. Then, complete. The first one is done for you.

3 rows of 5 a.



5 rows of 3

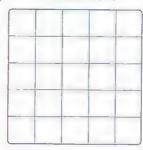


$$3 \times 5 = \boxed{15}$$

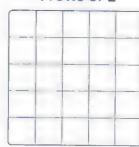
$$5 \times 3 = \boxed{15}$$

So,
$$\boxed{3} \times \boxed{5} = \boxed{5} \times \boxed{3} = \boxed{15}$$

b. 2 rows of 4



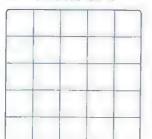
4 rows of 2



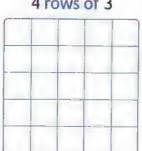
$$2 \times 4 =$$

$$4 \times 2 =$$

c. 3 rows of 4



4 rows of 3

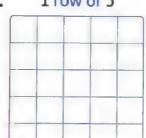


$$3 \times 4 =$$

$$4 \times 3 =$$

d.





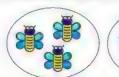
5 rows of 1



$$1 \times 5 =$$

5 Complete the following.

a.











groups of

groups of _

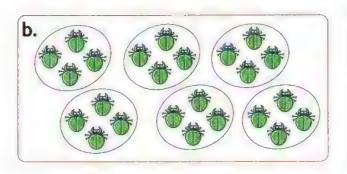


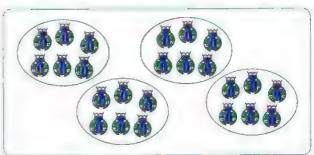












groups of_

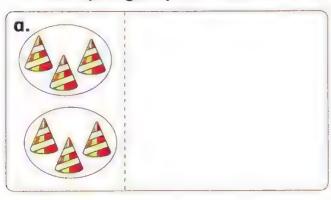
groups of _____

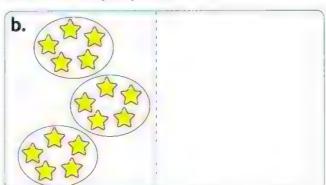
____ x (____ = (___

× ___ = __

____ x ___ = ___ x ___

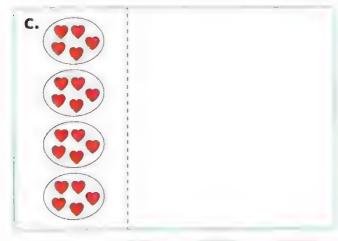
6 Write the multiplication sentence for each equal groups. Then draw the equal groups that shows the commutative property.

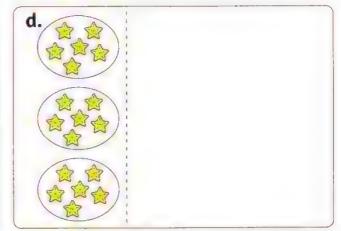




____ × ____ = ___ × ____

____ x ___ = ___ x ___





< ____

=

× ___

Complete.

- **a.** $3 \times 5 = 5 \times _{---}$
- **c.** $\times 8 = 8 \times 7$
- **e.** $7 \times 10 = 10 \times _{--}$
- g. ____ × 6 = ___ × 4
 - i. $5+5+5+5=5\times$ ____=_x5

- **b.** $2 \times _{---} = 9 \times 2$
- **d.** $4 \times 6 =$ $\times 4$
- f. 4 × ____ = 1 × ____
- h. 3 × ____ = 2 ×
- j. $9 + 9 = 2 \times \underline{\hspace{1cm}} = \underline{\hspace{1cm}} \times 2$

8 Put (\checkmark) to the correct statement or (X) to the incorrect statement.

 $\mathbf{a.} \ 7 \times 9 = 9 \times 7$

-)
- **b.** $1 \times 5 = 15 \times 1$
- ()

- **c.** $2 \times 9 = 18 = 9 \times 2$
- ()
- **d.** 7+7+7=3+3+3+3+3+3+3

e. $4 \times 7 = 7 + 4$

- ()
- **f.** $5 \times 6 = 6 5$

(

9 Match.

- $a. \sqrt{3 \times 4}$
- **b.** (2+2+2+2+2)
- c. 5×3
- d. 5×1

5 × 2

4 × 3

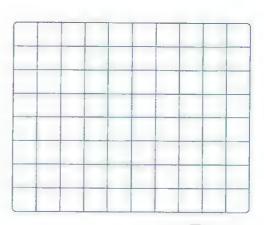
- 5+0
- 3 × 5

Challenge (

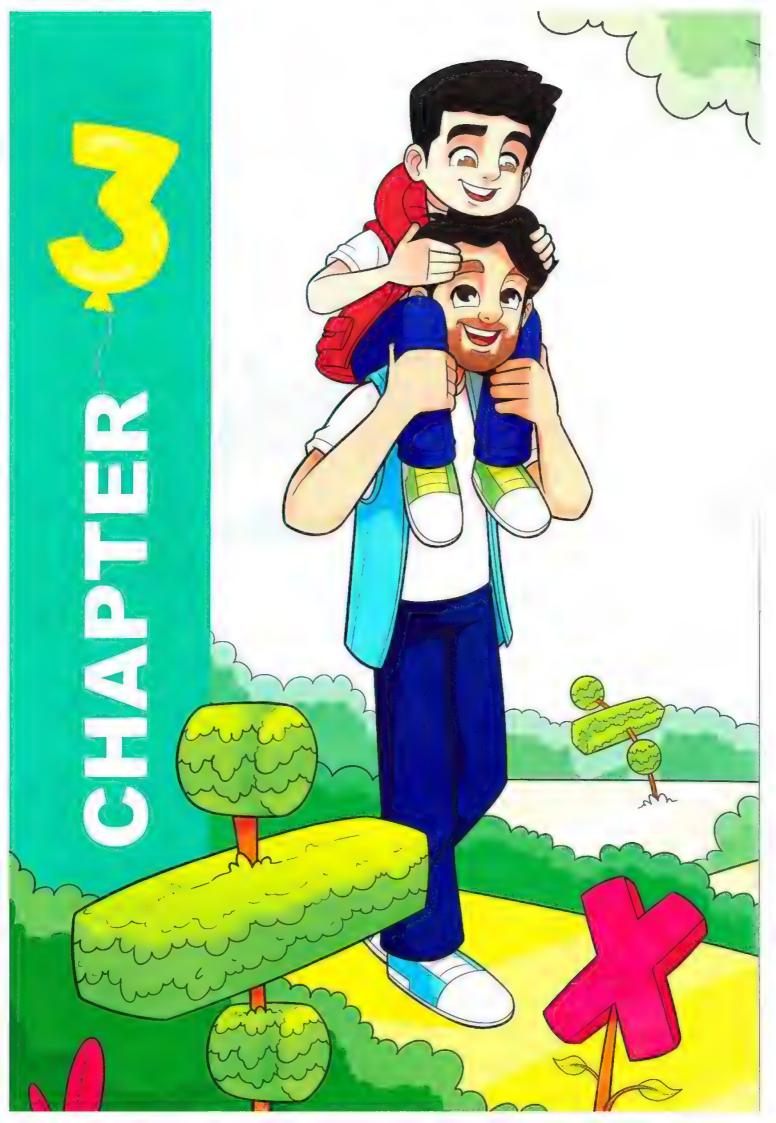


Draw and color the array on the opposite grid according to the multiplication sentence 5 × 7

What is the number of uncolored blocks?



Place a smiley face





Outcomes of chapter three:

At the end of chapter three, your child will be able to:

- ▶ Lessons 1 & 2 :
 - Word problems on multiplication
 - Applications on multiplication
 - Use a variety of strategies to solve multiplication story problems.
 - Explain elements of multiplication story problems.
 - Record a multiplication equation to match a story problem.
 - · Match multiplication equations to story problems.
 - Write a multiplication story problem that matches a given equation.

▶ Lesson 3:

- Multiples of 2, 3 and 4
- Explain the rules for multiplying by 0 and 1.
- Identify common multiples of 2 and 3.
- Predict common multiples of 2 and 3 greater than 120.
- Use evidence to justify and explain mathematical thinking.

▶ Lessons 4 A & 4 B :

- Multiples of 5, 6 and 7
 Multiples of 8, 9 and 10
- Identify the multiples of 5 and 10.
- Identify numerical patterns when multiplying by 5 and 10.
- Explain the relationship between skip counting and multiplication facts.

▶ Lesson 5 :

- Factors of a number using arrays
- Explore the relationship between multiples of 2, 3 and 6.
- Model the Commutative Property of Multiplication using arrays.
- · Identify factor pairs using arrays.

▶ Lessons 6 & 7 :

• Time

- Applications on time
- Explain the relationship between skip counting by 5s and telling time to 5-minute increments.
- Read and write time in 5-minute increments on an analog clock.
- Use a variety of strategies to tell time to 5-minute increments.

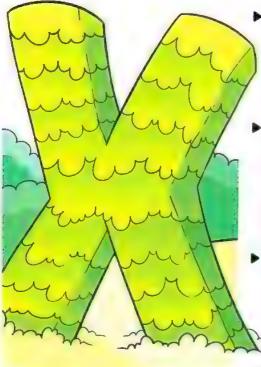
▶ Lessons 8 & 9 :

Division

- Applications on division
- Explain the relationship between sharing equally and dividing.
- Use a variety of strategies to solve division problems.
- Explain his/her thinking when solving division problems.

Lesson 10:

- The relation between multiplication and division
- Describe the relationship between factors and their product.
- Use the division symbol.
- Apply the relationship between multiplication and division to identify fact families.
- Solve division problems with one unknown.





- Word problems on multiplication
- Applications on multiplication



Learn How to solve multiplication word problem?

Eman has 3 plates.

There are 2 oranges in each plate.

How may oranges are there in all?





Understand

- What do you want to find out? Circle the question.
- What fact do you need? Underline them.



Plan

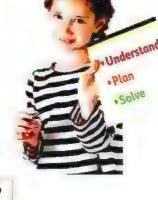
Write a number sentence to solve.













Solve

You can use one of these different ways to solve the problem.

Using repeated addition







Using skip counting



Using objects



This is a 3 rows of 2 array. There is 6 objects.

So,
$$3 \times 2 = 6$$



Said saves 7 L.E. each month. How much money does he save in 6 months?

Work area





Notes for parents



- Word problems on multiplication
- Applications on multiplication

From the school book

Match each problem to the suitable multiplication sentence.

a. Jana bought 3 packs of ping-pong balls.

Each pack has 5 balls.

How many balls are there?



b. Andy downloaded 3 games onto his tablet. The next day he downloaded 3 more.



How many games has he downloaded?

c. A guitar has 6 strings.



$$2 \times 5 = 10$$

How many strings are there in 2 guitars?

How many apples in 2 boxes?



$$3 \times 2 = 6$$

2 Read and solve. You may use counters to solve.

Remember

• Understand • Plan • Solve

a. Ahmed has 2 packets of sweets each contains5 pieces of sweets.



Work area



How many pieces of sweets Ahmed has?

Farha went to the store to buy rolls for a big family dinner.
At the store, she bought 4 bags of rolls. Each bag contained 5 rolls.

How many rolls did Farha buy?

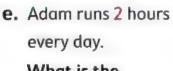
c. Manal brought 6 bags of cookies to school. Each bag had 3 cookies in it. How many cookies were there all together?



d. Each pack of pencils contains 8 pencils.



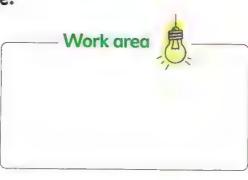
How many pencils are in 3 packs?

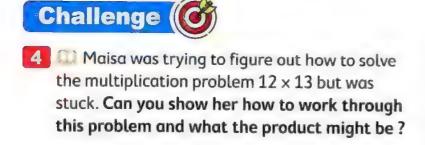


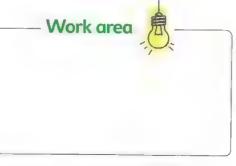
What is the number of running hours in 9 days?



	rite a multiplication story for the multiplien solve it. You may use counters to so 4×5	
h.	Magi has 5 boxes of 7 balls each and another 4 boxes of 7 balls each. How many balls does she have?	
g.	Rana saw 6 dogs in a garden. How many legs do the 6 dogs have?	y .
f.	A bag of oranges holds 4 oranges. How many oranges are in 8 bags?	Work area











Multiples of 2, 3 and 4



Learn 1 Multiples of 2, 3 and 4

- Multiple is the product of a given whole number by any other.
- You can get multiples of a number by skip counting by this number using a 120 chart.

For example:

To find (2×7)

Start at 2 and shade 7 boxes after skip counting by 2 You will land on 14

So, $2 \times 7 = 14$	So	. 2	×	7	=	14
-----------------------	----	-----	---	---	---	----

								_	
111	112	113	114	115	116	117	118	119	120
101	102	103	104	105	106	107	108	109	110
91	92	93	94	95	96	97	98	99	100
81	82	83	84	85	86	87	88	89	90
71	72	73	74	75	76	77	78	79	80
61	62	63	64	65	66	67	68	69	70
51	52	53	54	55	56	57	58	59	60
41	42	43	44	45	46	47	48	49	50
31	32	33	34	35	36	37	38	39	40
21	22	23	24	25	26	27	28	29	30
11	12	13	14	15	16	17	18	19	20
1	2	3	4	5	6	7	8	9	10

Also:

To find 3×5

Start at 3 and shade 5 boxes after skip counting by 3 You will land on 15 **So,** $3 \times 5 = 15$

**Intiffication 4

Start from 4

and skip counting by 4

 \times 1 = 4

Multiplier of I

Start from 2 and skip counting by 2

 $2 \times 1 = 2$

	-	***	-	_	_	
	2	×	2	=	4	
	2	×	3	=	6	
	2	×	4	=	8	
STANCE OF THE ST	2	×	5	=	10	
	2	×	6	=	12	
	2	×	7	=	14	
	2	ж	8	=	16	



Marine III

Start from 3 and skip counting by 3







\times 10 = 40

Check

Find the product.

Lesson 3

Notes for parents

Learn 2 Common multiples of 2 and 3

- Use a 120 chart.
- Skip count by 2 to find multiples of 2 up to 60. Shade each multiple of 2 red.
- Skip count by 3 to find multiples of 3 up to 60. Shade each multiple of 3 blue.

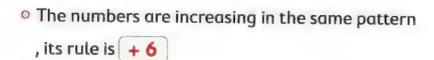


Which numbers are shaded twice?

111	112	113	114	115	116	117	118	119	120
101	102	103	104	105	106	107	108	109	110
91	92	93	94	95	96	97	98	99	100
81	82	83	84	85	86	87	88	89	90
71	72	73	74	75	76	77	78	79	80
61	62	63	64	65	66	67	68	69	70
51	82	53	34	55	56	57	58	59	50
41	M	43	44	45	46	47	45	49	50
31	32	33	34	35	36	37	38	39	40
2:1	22	23	24	25	26	27	28	29	30
11	22	13	14	15	16	17	28	19	20
1	X	3	X	5	8	7	8	9	10

The numbers are 6, 12, 18, 24, 30, 36, 42, 48, 54 and 60
 These numbers are common multiples of 2 and 3 up to 60

What do you notice about these numbers?



So, you can predict the next common multiple

$$60 + 6 = 66$$



Use the chart. Ring the multiples of 2 and underline the multiples of 3 then, find the multiples of 2 and 3 together.

23	12	15	18	30	66	33
22	48	96	100	54	27	32
20	13	24	29	40	42	50

The common multiples of 2 and 3 together are

Learn 3 Multiplying by 1 and 0

Ahmed has 5 baskets.
 There is 1 orange in each basket.
 How many oranges are there in all?



 $5 \times 1 = 5$ oranges

Rasha has 3 baskets.
 There is 0 oranges in each basket.
 How many oranges are there in all?







 $3 \times 0 = 0$ oranges

Any number multiplied by 1 equals the same number.



Any number multiplied by 0 equals 0



The multiplication operation is commutative.

Find each product.

Remem

98

Multiples of 2, 3 and 4

1 Find the product.

$$2 \times 3 = -$$

$$2 \times 10 = -$$

$$3 \times 6 = ---$$

$$3 \times 10 =$$

$$2 \times 5 = -$$

$$2 \times 2 = -$$

$$2 \times 3 = -$$

$$2 \times 9 = -$$

$$2 \times 1 = ---$$

$$2 \times 4 = -$$

$$2 \times 0 =$$

$$3 \times 1 = -$$

$$3 \times 7 = -$$

$$3 \times 9 = ---$$

$$3 \times 2 = -$$

$$3 \times 10 = -$$

$$4 \times 6 = -$$

$$4 \times 10 = ---$$

$$4 \times 0 = -$$

Find each product.

a. 3 × 7

b. 2 × 4

c. 2 × 8

d. 3 × 8

8

e. 1 × 2

f. 5 × 3

g. 2 × 2

h. 3 × 4 ___

i. 4 × 7

j. 4 × 3 ☐

k. 4 × 4

l. 3 × 5

m. 5 × 4

n. 4 × 10

0. 6 × 4

p. 4 × 8

q. 2 × 3

r. 2 × 7

5. 2 × 6

t. 3 × 6

u. 2 × 1

v. 5 × 2

w. 2 × 9

x. 10 × 3

y. 3 × 3

2. 3 × 2



3 Find the product.

a. × 8

b. 5 × 4

× 1

d. 9 × 3

i.

e. 2 × 10

f. 2 × 4

 h. 2 × 9

3 × 1 j. 1 × 3

k. 3 × 9

4 × 2

m. 6 × 0

n. 7 × 2

0. 4 × 5 Put (\checkmark) to the correct statement or (X) to the incorrect statement.

 $a. 3 \times 5 = 8$

- ()
- **b.** $2 \times 7 = 14$
- ()

c. $1 \times 4 = 4$

-)
- **d.** $4 \times 10 = 14$
- ()

e. $0 \times 7 = 7$

- ()
- f. $2 \times 6 = 12$
- ()

- **q.** $2 \times 5 = 5 + 5 = 10$
-)
- **h.** $3 \times 9 = 3 + 3 + 3$
- *(*)

- i. $3 \times 2 = 6 + 0$
- (
- $j. \ 2 \times 8 = 4 \times 4$
- (

- $k. 3 \times 3 = 3 + 3$
- ()
- $1.1 \times 3 = 1 + 1 + 1$
- (

 $m. 4 \times 7 = 28$

- ()
- **n.** $0 \times 7 = 0 + 7$
- (

- **o.** $4 \times 5 = 2 \times 10$
- ()
- **p.** $0 \times 9 = 0$

()

5 Join the equal results.

- $a. 2 \times 5$
- **b.** 2 × 3
- **c.** 3 × 3
- d. 2 × 9
- e. 4 × 3

6 + 3

- 3 × 6
- 6 × 2
- 5 + 5
- 3 × 2

6 Color the multiplication sentences in each row that have the same product.

- a.
- 4 × 3

3 × 5

2 × 6

- b.
- 2 × 10

8 × 3

4 × 6

- C.
- 3 × 6

9 · x 2

4 × 4

- d.
- 4 × 0

0 × 3

4 (x) 1

7 Choose the correct answer.

a. 2 x ___ = 10 ___ 5

3 8

9. 0 × 7 = ____ 7
0 1 5

0. ____ x 10 = zero ____ 1 ___ 3 ___ 3

f. 1 x = 9

1 x 8

zero 9

p. ____ x 5 = 5

O O O 1

O 3

102

8 Put "< , > or =".	8	Put	"<	. >	or	=".
---------------------	---	-----	----	-----	----	-----

α.	3	v	5
u.	_	Х	J

b.
$$1 \times 4$$
 0×4

c.
$$0+3$$

$$0 \times 3$$

d.
$$2 \times 2$$
 \bigcirc $2+2$

$$k. 9 + 9 + 9$$

$$m. 1 + 1 + 1 + 1 + 1$$

 1×6

$$\mathbf{0.} \ \ 3 \times 9$$

68 - 40

 3×0

$$\mathbf{q}$$
. 2×10

$$4 \times 5$$

$$r. 2 \times 5$$

9 Word problems on Multiples of 2, 3 and 4

a. If the price of one metre of cloth is 9 L.E., then find the price of 4 metres of this cloth.





b. How many flowers are there in

3 bunches of flowers if each has

10 flowers?

The number of flowers in

the bunches = _____ = ___ flowers.



c. There are 2 lions in a cage.

How many lions are there

in 8 cages?

The number of lions = _____ = ___ lions.



10 Use the chart.

a. Ring the multiples of 2

15 24

32

17

50

44

b. Ring the multiples of 3

22

18

40

20

33

13

c. Ring the multiples of 4

5

16

12

20

31

17

- d. Write the multiples of 2 up to 30
- e. Write the multiples of 2 between 31 and 55
- **f.** Write the multiples of 3 up to 40
- **q.** Write the multiples of 3 between 41 and 50
- h. Write the multiples of 4 up to 50
- i. Write three common multiples of 2 and 3 greater than 40 and smaller than 70
- j. Write three common multiples of 2 and 3 between 80 and 100

11 Complete. Write (+) or (\times) .

ď

1 = 9

b.

9

1 = 9

5 = 5

d. 2

0 = 2

e.

7 = 0 f.

. 1

7 = 8

Challenge (6)



What are these numbers?_







Multiples of 5, 6 and 7



Learn Multiples of 5, 6 and 7

• You can get multiples of 5, 6 or 7 by skip counting by this number using a 120 chart.

For example:

To find 5×6 start at 5 and shade 6 boxes after skip counting by 5 You will land on 30 So, $5 \times 6 = 30$

111	112	113	114	115	116	117	118	119	120
101	102	103	104	105	106	107	108	109	110
91	92	93	94	95	96	97	98	99	100
81	82	83	84	85	86	87	88	89	90
71	72	73	74	75	76	77	78	79	80
61	62	63	64	65	66	67	68	69	70
51	52	53	54	55	56	57	58	59	60
41	42	43	44	45	46	47	48	49	50
31	32	33	34	35	36	37	38	39	40
21	22	23	24	25	26	27	28	29	30
11	12	13	14	15	16	17	18	19	20
1	2	3	4	5	6	7	8	9	10

Also:

To find 6×7 start at 6 and shade 7 boxes after skip counting by 6 You will land on 42 So, $6 \times 7 = 42$

Multiples of 5

Start from 5 and skip counting by 5

Multiples of &

Start from 6 and skip counting by 6

× 1

Mutaples of 7

Start from 7 and skip counting by 7

 $7 \times 1 = 7$



Check (

Find the product.

 $5 \times 6 =$

$$5 \times 3 =$$

$$5 \times 9 =$$

Notes for parents

Help your child skip counting by 5, 6 and 7 on the 120 chart.

Multiples of 5, 6 and 7

1 Find the product.

$$5 \times 3 =$$

$$5 \times 10 = -$$

$$6 \times 5 =$$

$$7 \times 0 = ---$$

$$7 \times 4 =$$

$$7 \times 7 = -$$

$$7 \times 8 = ---$$

$$7 \times 9 =$$

Pind the product.

$$6 \times 10 =$$

$$6 \times 1 = -$$

$$7 \times 9 = -$$

$$7 \times 0 = -$$

3 Find each product.

a. 7 × 7

b. 5 × 6

c. 6 × 4

d. 7 × 3

e. 6 x 8

f. 7×10

g. 6 × 5 ____

 $h. 5 \times 2 \boxed{}$

i. 5 × 8

j. 5 × 4

k. 5 × 1

l. 5 × 9

m. 7 × 4 ____

n. 5 x 7

0. 6 × 6

p. 6 × 7

q. 6 × 9

r. 7 × 8

s. 7 × 5

t. 7 × 2

u. 5 × 5 ____

v. 7 × 0

w. 6 × 3

x. 7 × 6

y. 7 × 9

z. 5 × 3

4 Find the result.

x 5

10 × 7 × 5

d. 5 × 5

e. 5 × 6

f. 3
× 5

9. 8 × 7 h. 10 × 6

7 × 5

j. 6 × 7 5 Put "> , = or <".

- $a. 5 \times 5$

- **b.** 5×7
- 5×8

- c. 7×3
- 6×5

 6×6

- d.5 + 5
- 5×5

- $e. 5 \times 8$
- 7×4
- f. 7×5
- 5×3

- $q.6 \times 6$
- 6×5
- h. 5×7
- 7×3

- i. 6×9
- 7×7
- i. 6 x 4
- 5×7

- $k.6 \times 8$
- 7×7
- 1.5 + 5
- 5×2

- $m. 7 \times 0$
- 7 + 0
- $n. 6 \times 8$
- 7×9

- \mathbf{o} , 5×5
- 000000000
- 6×4
- $\mathbf{p.} \ 7 \times 10$
- 6×9

- $q.6\times1$
- 7×0
- r. 5×9
- 7×8

- s. 7×6
- 6×7
- t.7+7+7+7
- 7×7

- u. 7 + 5
- 5×6
 - v. 11 + 9

 5×4

6 Choose the correct answer.

a. $5 \times 6 =$

 $(3 \times 10 \text{ or } 4 \times 10 \text{ or } 6 \times 6 \text{ or } 7 \times 9)$

 $(8 \times 3 \text{ or } 4 \times 10 \text{ or } 9 \times 5 \text{ or } 6 \times 10)$

b. 6×7>_____

(63 or 72 or 27 or 100)

c. $4 \times 7 >$

(53 or 42 or 35 or 12)

d. $7 \times 5 =$ **e.** $7 \times 1 = _{---} + 7$

(0 or 1 or 2 or 3)

f. 0 × 6 = _____

 $(1+1 \text{ or } 1-1 \text{ or } 1\times 1 \text{ or } 8)$

q. $5 \times 9 =$

- (19 or 40 + 5 or 54 or 14)
- h. All the following equals to 30 except_
 - $(5 \times 6 \text{ or } 3 \times 10 \text{ or } 3 + 10 \text{ or } 6 \times 5)$
- All the following are equal to 28 except ___
 - $(6 \times 4 \text{ or } 4 \times 7 \text{ or } 7 \times 4 \text{ or } 2 \text{ tens and } 8 \text{ ones})$
- Which of the following is equal to 48?
 - $(5 \times 8 \text{ or } 7 \times 8 \text{ or } 6 \times 8 \text{ or } 8 + 8 + 8 + 8)$
- Chapter 3 k. Which of the following is equal to 40? $(6 \times 7 \text{ or } 7 \times 5 \text{ or } 5 \times 8 \text{ or } 4 \times 9)$ Lesson 4A

Match.

1.
$$7 \times 0$$
 2. 6×6 3. 3×6 4. $20 + 4$ 5. $6 + 0$

18 Put (\checkmark) to the correct statement or (X) to the incorrect statement.

a.
$$5 \times 8 = 4 \times 10 = 40$$

b.
$$6 \times 7 < 5 \times 8$$

c.
$$5 + 5 + 5 = 5 \times 3 = 15$$

d.
$$7 \times 1 = 7 + 0$$

e.
$$7 \times 0 = 0 \times 5$$

f.
$$7 \times 5 > 5 \times 6$$

g.
$$7 \times 6 = 40 + 2$$

h.
$$6+6+6+6+6+6=6\times6=66$$

i.
$$7 \times 9 = 36$$

j.
$$6 \times 5 = 3 \times 10$$

$$\mathbf{k.}\ 6\times9<6\times10$$

l.
$$7+7+7+7+7+7+7>7\times6$$



9 Use the chart. Choose yes or no.

Yes

No

Yes

No

Yes

No

Yes

No

Yes

No

Is 1 a multiple of 6?

Yes

No

10	Word	problems.
----	------	-----------

a. If the weight of one fish is 2 kg.

Find the weight of 6 fish.

The weight of 6 fish = _____ = ___ kg.



b. The pupils of one of the third primary classes stood in 5 lines with 8 pupils in each line. How many pupils are there in this class?

Number of the pupils = _____ pupils.



c. Aly bought 7 bars of chocolate for 4 pounds each.

How much money did Aly pay?

Aly paid = _____ = ___ pounds.



d. Nagwa bought 5 bags of oranges and each bag contains 9 oranges.

How many oranges did Nagwa buy?

The number of oranges = _____ = ___ oranges.



111 Use the chart.

a. Write the first three common multiples of 5 and 6.

b. Write the first three common multiples of 5 and 7.



12 How many common multiples of 5 , 6 and 7 are there up to 120?

(You can use a 120 chart).







Multiples of 8, 9 and 10



Learn 1 Multiples of 8, 9 and 10

You can get multiples of 8, 9 or 10 by skip counting by this number using a 120 chart.

For example:

To find (8×9) start at 8 and shade 9 boxes after skip counting by 8 You will land on 72

So,
$$8 \times 9 = 72$$

111	112	113	114	115	116	117	118	119	120
101	102	103	104	105	106	107	108	109	110
91	92	93	94	95	96	97	98	99	100
81	82	83	84	85	86	87	88	89	90
71	72	73	74	75	76	77	78	79	80
_61	62	63	64	65	66	67	68	69	70
51	52	53	54	55	56	57	58	59	60
41	42	43	44	45	46	47	48	49	50
31	32	33	34	35	36	37	38	39	40
21	22	23	24	25	26	27	28	29	30
11	12	13	14	15	16	17	18	19	20
1	2	3	4	5	6	7	8	9	10

Also:

To find 10×8 start at 10 and shade 8 boxes after skip counting by 10 You will land on 80

So,
$$10 \times 8 = 80$$

Multiples of 8

Start from 8 and skip counting by 8

Multiples of 9

Start from 9 and skip counting by 9

Malsines of 10

Start from 10 and skip counting by 10

Check

Use the chart. Find each product.

$$8 \times 7 = _{---}$$

$$8 \times 5 =$$

$$7 \times 10 =$$
 $6 \times 9 =$

Notes for parents



- OUsing a 120 chart.
- Oraw a circle around each multiple of 5 and a triangle on each multiple of 10 on this chart up to 60.

0	Which	number	s are	marked	twice
	on the	chart?			

- The numbers are 10, 20, 30, 40, 50 and 60
- These numbers are common multiples of 5 and 10



(55)

(45)

(35)

(25)

119 120

(60)

• What do you notice about these numbers?

The ones digit is 0



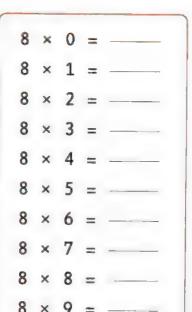
Circle the multiples of 5 and underline the multiples of 10, then deduce the common multiples of 5 and 10.

- Multiples of 5 are _____
- Multiples of 10 are _
- The common multiples of 5 and 10 are ____

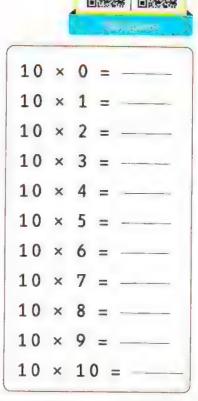


Multiples of 8, 9 and 10

1 Find the product.



 $8 \times 10 = -$



2 Find the result.

Find each product.

a. 8 × 7	
----------	--

f.
$$10 \times 10$$

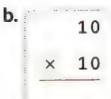
i.

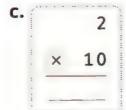
y. 10 × 9

z. 10 × 3

4 Find the product.

a. 10 × 4





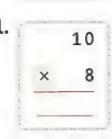




j.

f. 3 × 10

k. 9 × 10





5 Put "> , = or <".

- $a. 9 \times 5$
- 8×6
- **b.** 9×7 8×8

- c. 10×3
- 9×5
- d. 8 + 9 8×9

- $e. 8 \times 8$
- 10×4
- f. 10×5 5×10

- $\mathbf{q}.\ 8\times5$
- 5×8
- $h. 9 \times 6$ 8×5

- i. 9×4
- 8×7

- k. 9×9
- 00000000000 8×7
- j. 9×0 8×0

- $m.8 \times 0$
- 8×1
- L. 9×4 10×7

- $n.7 \times 7$ 8×6

- \mathbf{o} . 8×8
- 8 + 8
- $\mathbf{p.} \ 9 \times 0$ 9 + 0

- q. 9 x 8
- 10 × 9

- $\mathbf{s}. \ 8 \times 10$
- $r. 10 \times 4$ 8×5

- $\mathbf{u}. 9 \times 3$
- 9×9
- t. 6×9 7×7

- 3×9
- v. 9×6 9×7

- **W.** 8 + 8 + 8 + 8
- 8×8
- x. 9+9+9+9 9×4

- y. 7 + 11
- 9×2
- **z.** 3+9

 9×3

6 Choose the correct answer.

a. $8 \times 5 =$ _____

 $(3 \times 10 \text{ or } 4 \times 10 \text{ or } 6 \times 6 \text{ or } 7 \times 9)$

b. 9×6>_____

(54 or 72 or 43 or 90)

c. 8×7<____

 $(8\times3 \text{ or } 4\times10 \text{ or } 9\times5 \text{ or } 6\times10)$

d. $5 \times 10 =$

(10+10+10 or 10+10+10+10 or 10+10+10+10+10 or 10+10)

e. $9 \times 5 =$

(54 or 45 or 95 or 14)

f. $8 \times 9 = 70 +$

(1 or 2 or 3 or 4)

q. $1 \times 8 =$ ______ + 8

(0 or 1 or 2 or 3)

h. $8 \times 0 =$

 $(1+1 \text{ or } 1-1 \text{ or } 1\times 1 \text{ or } 8)$

i. $10 \times 9 =$

(19 or 10+9 or 91 or 90)

j. All the following are equal to 40 except _

 $(8 \times 5 \text{ or } 10 \times 4 \text{ or } 10 + 30 \text{ or } 0 \times 12)$

k. All the following are equal to 36 except

$$(9 \times 4 \text{ or } 6 \times 6 \text{ or } 3 \times 10 \text{ or } 3 \text{ tens and } 6 \text{ ones})$$

l. Which of the following is equal to 90?

$$(9 \times 9 \text{ or } 9 \times 10 \text{ or } 9 \times 5 \text{ or } 9 + 9 + 9 + 9 + 9 + 9 + 9)$$

m. Which of the following is equal to zero?

$$(8 \times 1 \text{ or } 10 \times 1 \text{ or } 8 \times 0 \text{ or } 9 \times 1)$$

7 Join the equal results.

1.
$$3 \times 10$$
 2. 5×10 3. 10×2 4. 8×5

8 Put (\checkmark) to the correct statement or (X) to the incorrect statement.

a.
$$8 \times 5 = 4 \times 10 = 40$$

$$8 \times 5 = 4 \times 10 = 40 \tag{}$$

b.
$$9 \times 7 < 8 \times 8$$
 ()

c.
$$8 + 8 + 8 + 8 + 8 + 8 + 8 = 8 \times 7 = 56$$
 ()

d.
$$9 \times 9 = 9 + 9$$
 ()

e.
$$10 \times 0 = 0 \times 8$$
 ()

q.
$$9 \times 6 = 40 + 5$$
 ()

h.
$$10 + 10 + 10 = 10 \times 3 = 30$$

i.
$$8 \times 9 = 27$$

$$\mathbf{j.} \ \ 8 \times 10 = 9 \times 9 \tag{}$$

$$\mathbf{k.}\ 10\times9<8\times9$$

$$1. 7 + 7 + 7 + 7 = 9 \times 3$$

$$\mathbf{m.} \ 9 \times 0 = 8 + 1$$
 (

Chapter 3 n.
$$72 = 9 \times 8 = 8 \times 9$$

a. Write three common multiples of 5 and 10 gred	ater than 63 and smaller than
b. Write three common multiples of 5 and 10 grea	iter than 99 and smaller than
c. Write three common multiples of 5 and 10 less	than 100
Word problems.	
a. A box of spread cheese has 8 pieces.	
What is the number of pieces in 9 boxes?	
The number of pieces in 9 boxes	
= pieces.	
b. Wael bought ten books for 9 pounds each.	
What is the price of all books?	
The price of all books = =	pounds.
c. There are eight carriages in each toy train.	
How many carriages are there in six trains?	
The number of carriages =	
= carriages.	
hallenge (6)	
Heba says that 37 is a multiple of 10 because the	digits 3 and 7 add to 10
Do you agree ? Explain.	angles 5 and 7 add to 10.
, , , , , , , , , , , , , , , , , , ,	
	place a smil

Review on the Multiples

1 Find the result.



2 Find the result.

1.

8

2.



3.

4.

6.



7.

X

8.

×	7

9. 6 10.

11.

5 12.

X	

7

13.		7	14.	9 1	5.
;	×	5	×	5	× ×
			-		•

	9
×	5

9 16.

17.

9 18.

9.		5
;	×	0
* 1		
:		

20.

×	4
	-

8 21. 7 22. 4

23. 8 24.

X	- 6
^	-

25.

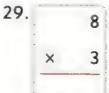


26.

	٥
×	8

27. 6 28.

F87+ 44		C
2		
1		_
	X	3
2		
4 13		
1		



30.

4



X	- 4

;		
:		
**********	×	7
٠		

32. **9** 33. **5** 34.

35.



5 36.

×	4

37.



38.

×	6

7 39.



9 40.



41.

×	:		
× 4	,		
	:	×	4
	:		
	:		

42.

X	



Factors of a number using arrays



- Factor pair is a group of two numbers we multiply to get a product.
- Four friends Bassem, Mina, Hanan and Mariam.
 Each one has 6 identical cards and arranged them in rows of equal number of cards.

Bassem could arrange them in 1 row of 6 cards.





Mina could arrange them in 2 rows of 3 cards.





Hanan could arrange them in 3 rows of 2 cards.

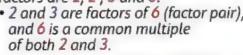


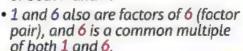


Mariam could arrange them in 6 rows of 1 card.



So, the number 6 can be arranged in different ways into arrays and its factors are 1, 2, 3 and 6.
• 2 and 3 are factors of 6 (factor pair),



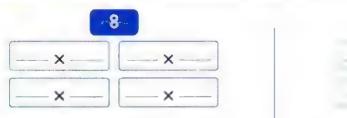








Write each factor pair and the factors of each number.



Factors are _____

X

Chapter 3 Lesson 5

120

Notes for parents

Factors are

• Help you child know that 2 and 3 are factors of 6, and 6 is a common multiple of both 2 and 3.



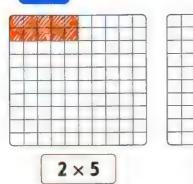
Factors of a number using arrays

From the school book

Write each factor pair and the fac of each number.	You can use beans or buttons to make differe arrays to find factor pa
a.	b
c. 18 x	d
Factors are	Factors are
e	f
g	h
Factors are	Factors are

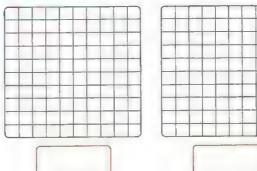
How many different arrays can you make with the given number?
Color the grids to show your work.

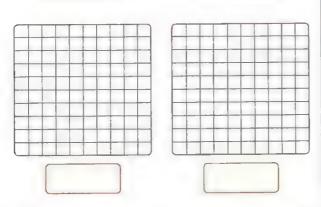
a. 10°

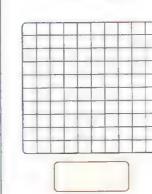


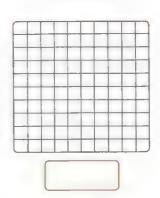
b.



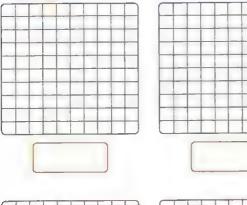








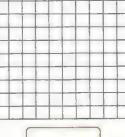
c. 12



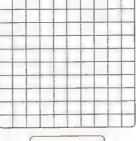
d.











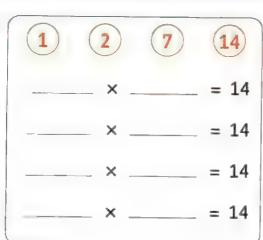




- a. The number 6 has _____ factors.
- c. The number 10 has ______ factors.
- e. The number 5 has ______ factors.
- **g.** The number 16 has _____ factors.
- **b.** The number 11 has ______ factors.
- **d.** The number 12 has _____ factors.
- f. The number 18 has _____ factors.
- h. The number 20 has ______ factors

4 Complete using the given numbers. Use every number more than one time.

a.



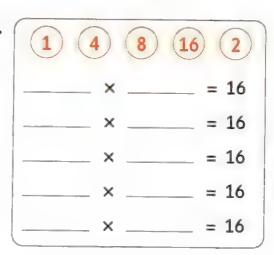
b.

1	3	5	15
	_ × _		= 15
	_ × _		= 15
	_ × _		= 15
	_ ×		= 15

c.

3	7	1	21
	_ × _		= 21
	_ × _		= 21
	_ × _		= 21
	_ × _		= 21

d.



Challenge 6

- a. Which number does have one factor pair?
 - **b.** Write three numbers where the number of the factors of each is two.

_____, _____and _____



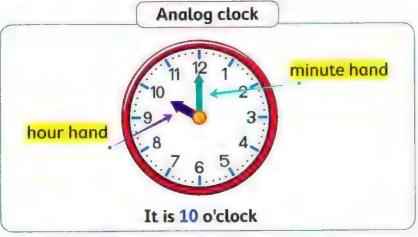
6 & 7

- Time
- Applications on time



Remember

There are 60 minutes in 1 hour.









It is quarter past 10





It is half past 10





It is quarter to 11

Check (

Write the time in two ways.



It's _____



It's _____



It's _____



It's _____

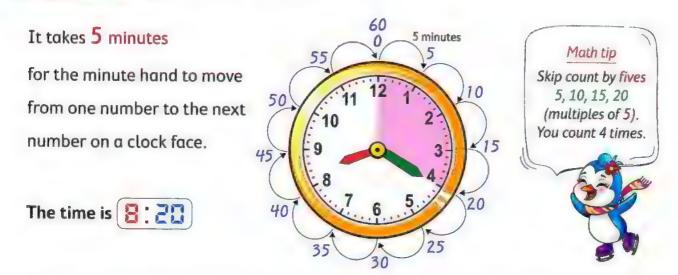
Chapter 3
Lessons 6 & 7

Notes for parents

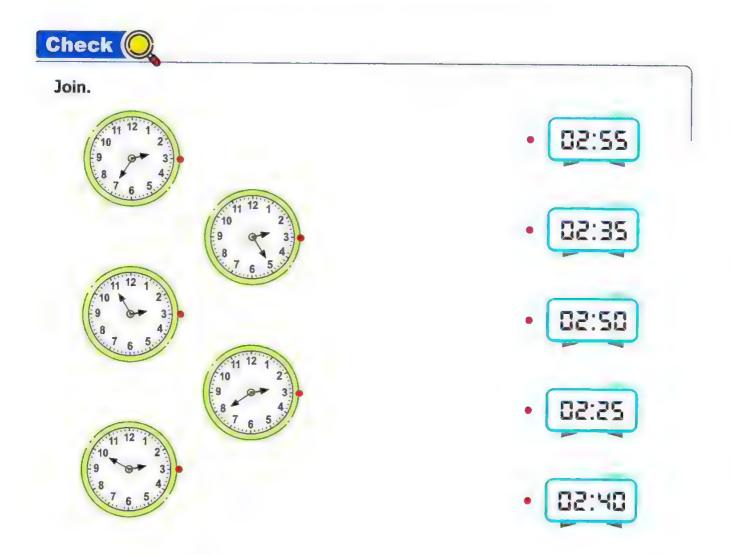
124

 \bullet Ask your child where the minute hand and the hour hand point at 4:30 , 2:15 and 5:45.

Learn 1 Time to 5 minutes



Where does the minute hand point at 8:20? The minute hand points at the 4



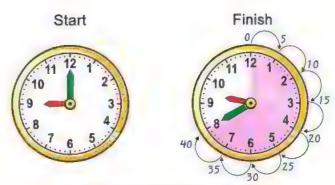
 $[\]bullet$ Ask your child to count from 8:00 to 9:00 using 5-minutes intervals (8:00 , 8:05, 8:10, 8:15, and so on)

Learn 2 Elapsed time

Rasha started reading at 9:00

She finished reading at ₹:५0

For how long did she read?



You can count by fives as follows:

She read for 40 minutes.



The elapsed time from 9:00 to 9:40 is 40 minutes.

Check (

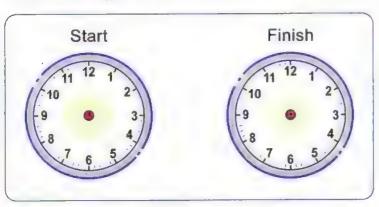
Youssef started swimming

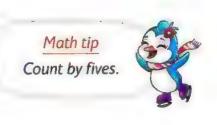
at 5:00 and he finished

at 5:25



For how long did he swim?





He swam for _____ minutes.



 Point out the clock when it shows time to the hour. Ask your child to explain how a clock shows that an hour has gone by.



- Time
- Applications on time

From the school book

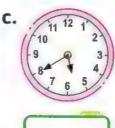
1 Write the time.











d. 🏬



e.



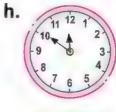














Write the time in two ways.

a.



It's

b.



It's



It's

d.



It's

e.



It's



It's

3 Draw the clock hands.

9:05

b.

C.

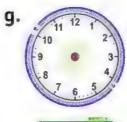
d.

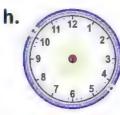
e.



f.





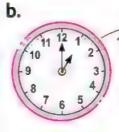


4 Draw the clock hands and write the time.

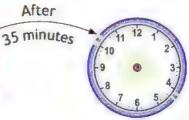
a.

After 10 minutes





After



C.

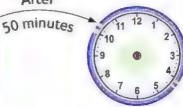


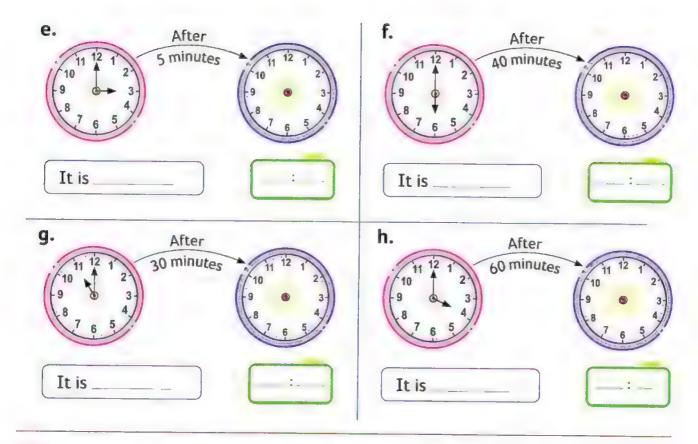


d.



After





5 If the start time is 03 : 00, answer as the example.

Example:

- a. What number will the minute hand point to when 10 minutes have passed?
- **b.** What number will the minute hand point to when 25 minutes have passed?
- c. What number will the minute hand point to when 40 minutes have passed?
- d. What number will the minute hand point to when 5 minutes have passed?
- e. What number will the minute hand point to when 60 minutes have passed?



6 Calculate the elapsed time between the two clocks.





Elapsed time

Elapsed time

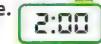


d.



Elapsed time.

Elapsed time.







Elapsed time.

Elapsed time

g.





h.





Elapsed time

Elapsed time

7 Answer the following.

a. A football match started at

The first round ended at





For how long did the first round take?

The first round took ___ minutes. **b.** Our English lesson started at



11 12 1

It finished at

For how long did English lesson take?

English lesson took _____ minutes.



c. \square Your mom puts muffins in the oven at \square : \square

When you take them out, the clock

looks like this:

How many minutes did it take to bake the muffins?



d. \square You leave school at $\exists : \square \square$ and when you get home

the clock looks like this:

How many minutes did it take you to walk home?



e. John wakes up at 7 o'clock.

He gets ready at



How many minutes does he take to get ready?

He takes _____ minutes.



B Draw the hands on the clock to show the time in each of the following.

a. Yara started playing tennis at **5:00**She played for 35 minutes.

What time did she finish?





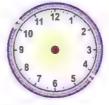
b. If it takes you 45 minutes to walk home from school and you leave at 3:00, what time will it be when you get home?





C. The train to Alexandria arrived at 9:00

It left the station 55 minutes earlier to get to Alexandria.





What time did the train leave the station?

d. AT.V. show ended at 8:00

It lasted for half hour.





What time did the T.V. show start?

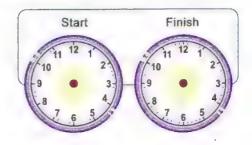


9 Salma's piano lesson begins at 4:15

It lasts for 30 minutes.

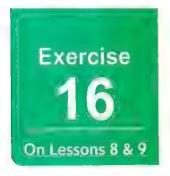
At what time does her lesson end?











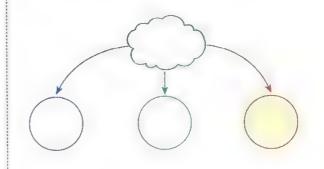
- Division
- Applications on division

From the school book

- 1 Draw to show equal groups. Fill in the part part whole model. Complete.
 - a. 9 coins divided among 3 money boxes.



Each money box has _____ coins.

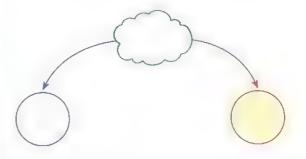


b. 6 pencils divided among 2 pencil cases.





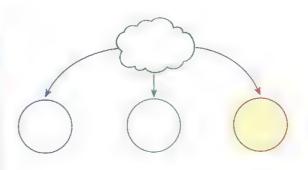
Each pencil case has _____ pencils.



c. 12 oranges divided among 3 plates.



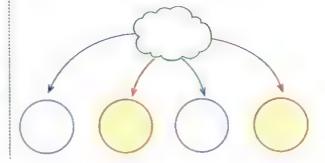
Each plate has _____ oranges.



d. There are 16 fish that need to be placed in 4 bowls.



Each bowl has _____ fish.



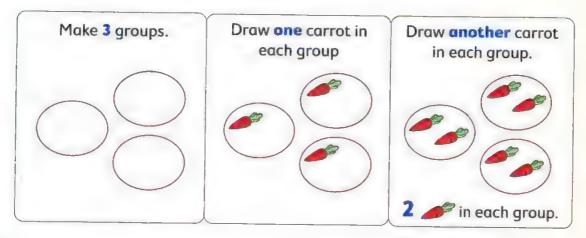


- Division
- Applications on division

Learn What is the division?

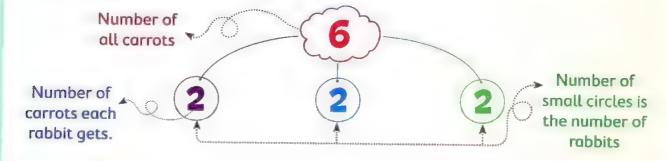
- Division is to separate some things in equal groups.
- To share things equally, you can divide.
- Hend has 6 carrots to feed the rabbits.
- There are 3 rabbits.
- How many carrots does each rabbit get?





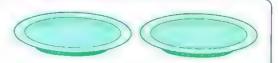
So, each rabbit gets 2 carrots.

• The following model is called a part - part - whole to represent the sharing problem (Division).





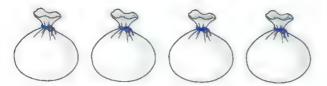
Draw to show 8 eggs divided among 2 plates.



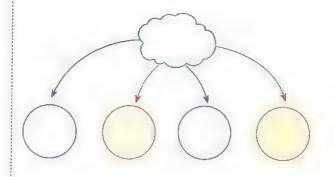
Notes for parents

Ask your child to use 10 objects to make equal groups.

e. 8 marbles divided among 4 bags.



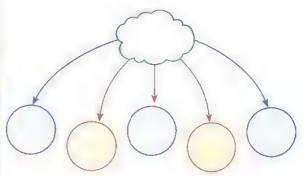
Each bag has _____ marbles.



f. Sameh is preparing gift baskets. He has 20 oranges that need to be divided equally between 5 baskets.



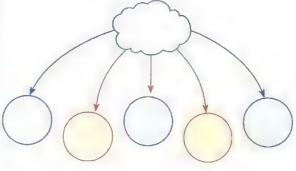
Each basket has _____ oranges.



g. 15 toys divided among 5 boxes.



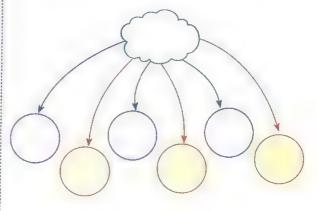
Each box has _____ toys.



h. The teacher has 36 crayons to share equally between 6 students.

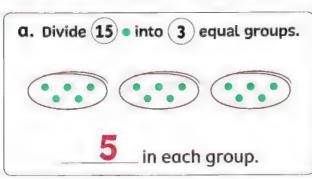


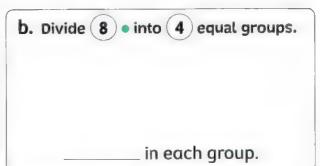
Each cup has _____ crayons.

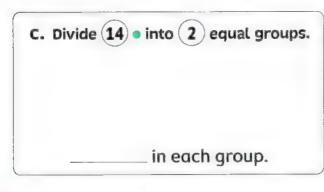


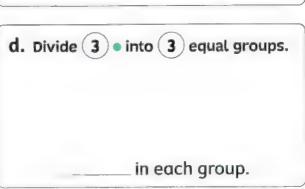
Draw to show your work.

Write how many in each group. The first one is done for you.









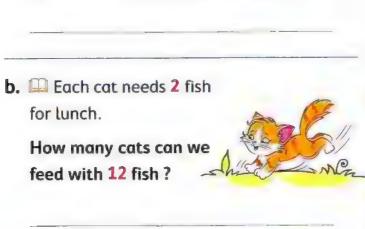
Solve the following problems.

You can draw a mathematical picture or use counters to help you.

a. Rania has 18 eggs and wants to put them equally in 3 plates.
How many eggs are there in each plate?



Work area



Work area

C. Bassem has 28 stamps. He put an equal number of his stamps on each of 4 pages.



How many stamps are on each page?

d. 🕮 Each ibis will eat 3 worms. You have

18 worms.

How many ibis can be fed?



e. 🛄 Each jackal must eat 6 insects.

There are 24 insects.

How many jackals can be fed?



f. A class has 20 pupils.
If they are divided into rows of 5 pupils each.



How many rows are there?

g. 🚨 Each crocodile wants to eat 5 fish.

Work area

How many crocodiles can be fed?

There are 25 fish.



h. Shady saw some

horses in a park

He counted 36 legs.



How many horses did Shady see?

Challenge (©

4 Amgad has 13 lemons.

Can he put all of them in two boxes, each of them has an equal number of lemons? Explain.







Lesson

The relation between multiplication and division



- There are 12 sweets.
- You want to divide them among 3 groups and find the sweets number in each group.









- There are 4 sweets in each group.
- When you divided them in equal groups, you can express it by the division sentence.

What you say: 12 divided by 3 equals 4

What you write:

This is a division sentence

Division symbol

Quotient: The answer of the division problem.

Check (

Write the result of each of the following.

c.
$$24 \div 3 =$$

f.
$$50 \div 10 =$$

h.
$$64 \div 8 =$$

i.
$$42 \div 7 =$$

Notes for parents

Learn 2 Relation between multiplication and division

- Nader drew 12

 ✓ s in two ways.
- He wrote two multiplication sentences about his picture.

$$\boxed{3 \times 4 = 12}$$

 $3 \times 4 = 12$ "Think: 3 groups of 4 is 12"

$$4 \times 3 = 12$$

 $4 \times 3 = 12$ "Think: 4 groups of 3 is 12"

Vocabulary

Fact family It is a set of related multiplication and division number sentences.



 $3 \times 4 = 12$

• He can also write two division sentences about his picture.

$$\boxed{12 \div 3 = 4}$$

 $12 \div 3 = 4$ "Think: 12 divided into 3 groups of 4"

$$\boxed{12 \div 4 = 3}$$

 $12 \div 4 = 3$ "Think: 12 divided into 4 groups of 3"

• These four number sentences form a fact family of the numbers 3, 4 and 12.



 $4 \times 3 = 12$

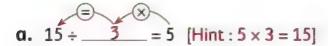
Example (1)

Complete.

b.
$$\pm 4 = 6$$

d. ____
$$\times$$
 2 = 18

Solution 🗸



b.
$$24 \div 4 = 6$$

[Hint: $6 \times 4 = 24$]

c.
$$6 \times _{5} = 30$$

d.
$$9 \times 2 = 18$$



Example (2)

Write the suitable sign ">, = or <".

- **a.** $35 \div 7$ 5×7
- **c.** $28 \div 4$ 4 + 4
- **e.** 2×3 24 ÷ 4

- **b.** 4×2 42 ÷ 6
- **d.** $10 \div 10$ 10×0
- f. 4×5 10×2

Solution 🗸



35 5 × 7

- 7 c. 28 ÷ 4 < 4 + 4
- e. 2×3 = $24 \div 4$

- 8 7 $6. \ 4 \times 2$ > $42 \div 6$
- d. $10 \div 10$ $> 10 \times 0$
- f. 4×5 = 10×2

Check (

Join the equal answers.

- a. 18 ÷ 3
- b. 16 ÷ 2
- c. 8 ÷ 4
- d. 5 + 5
- e. 1 × 4

- 10 ÷ 5
- 2 × 3
- 4 ÷ 1
- 4 + 4
- 20 ÷ 2

The relation between multiplication and division

From the school book

1 Find the result.

2 Choose the correct answer.

b.
$$45 \div 5 =$$

c.
$$36 \div 4 =$$

d.
$$70 \div 7 =$$

e.
$$18 \div 6 =$$

f.
$$2 \div 2 =$$

$\boxed{3}$ Put the suitable sign "> , = or <".

c.
$$54 \div 6$$

d.
$$6 \times 1$$
 $6 \div 1$

$$e. 8 \times 8$$

$$g.6 \times 6$$

Put (\checkmark) to the correct statement or (X) to the incorrect statement.

a.
$$15 \div 3 = 5$$

b.
$$28 \div 4 = 6$$

c.
$$7 \div 7 = 7$$

d.
$$8 \div 1 = 8$$

e.
$$24 \div 4 = 24 \div 8$$

f.
$$12 \div 4 = 24 \div 8$$

q.
$$8 \div 8 = 5 \div 5$$

h.
$$36 \div 4 > 40 \div 4$$

)

)

i.
$$6 \div 3 > 2$$

i.
$$10 \div 5 < 2$$

k. If Sara has 20 lemons and she wants to put them equally in 5 bags.

Then, there are 4 lemons in each bag.

L. If A class has 24 pupils and they are divided into rows of 4 pupils each.

Then, there are 5 pupils in each row.

5 Complete.

= 12

d.
$$7 \times \boxed{ } = 23$$

$$6 \times \boxed{-} = 54$$

6 Find the missing number.

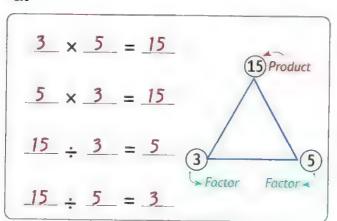
$$\div 6 = 5$$

$$\div$$
 5 = 3

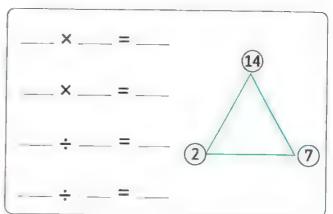
30 ÷

Write the fact family for each set of numbers. The first one is done for you.

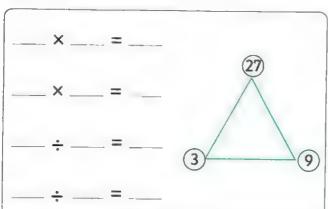
a.



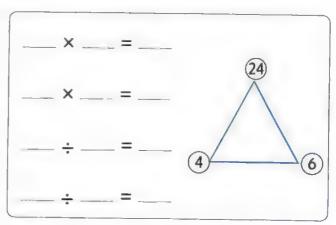
b.



C.



d.



8 Write the other facts from each family.

a. 4 × 9 = 36

J.	2	×	8	=	16
_					_

b. 40 ÷ 5 = 8

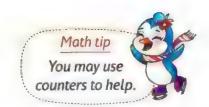
2.	13	÷	1	=	13
_					

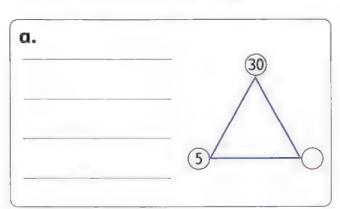
c. 6 × 3 = 18

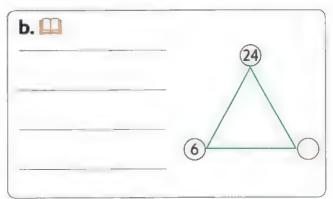
f. 14 ÷ 2 = 7

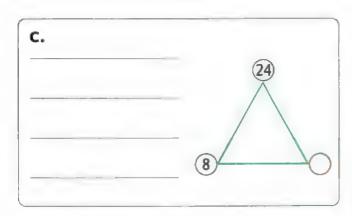
Find the missing factor in each triangle below.

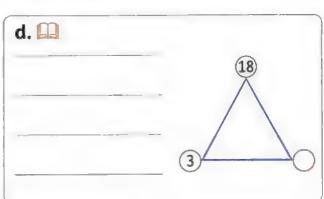
Then write the four numbers sentences that go with the fact family.

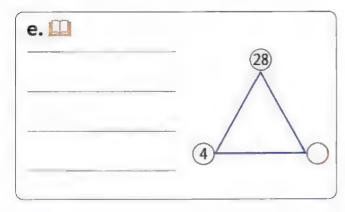


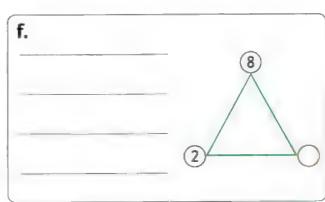


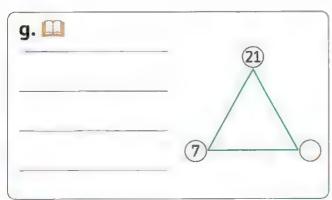


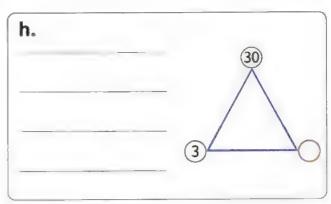












10 Choose which number sentence is not included in the same fact family.

 $9 \times 4 = 36$

$$\bigcirc 4 \times 9 = 36$$

$$\bigcirc$$
 36 ÷ 4 = 9

$$\bigcirc$$
 36 ÷ 6 = 6

$$\bigcirc$$
 36 ÷ 9 = 4

$$18 \div 3 = 6$$

$$\bigcirc 3 \times 6 = 18$$

$$\bigcirc$$
 18 ÷ 6 = 3

$$\bigcirc$$
 6 x 3 = 18

$$\bigcirc$$
 9 x 2 = 18

$$24 \div 6 = 4$$

$$\bigcirc 4 \times 6 = 24$$

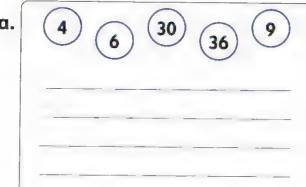
$$\bigcirc 24 \div 3 = 8$$

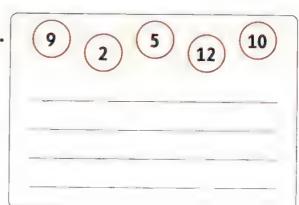
$$\bigcirc$$
 6 × 4 = 24

$$\bigcirc 24 \div 4 = 6$$

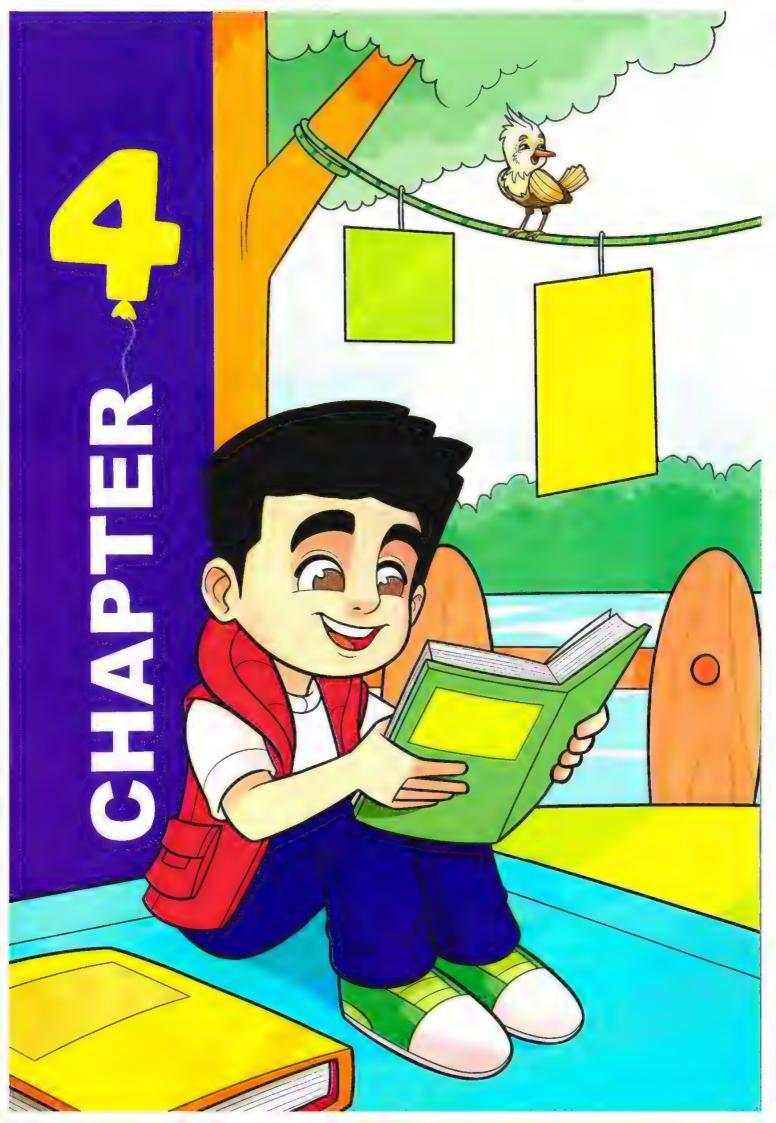
Challenge

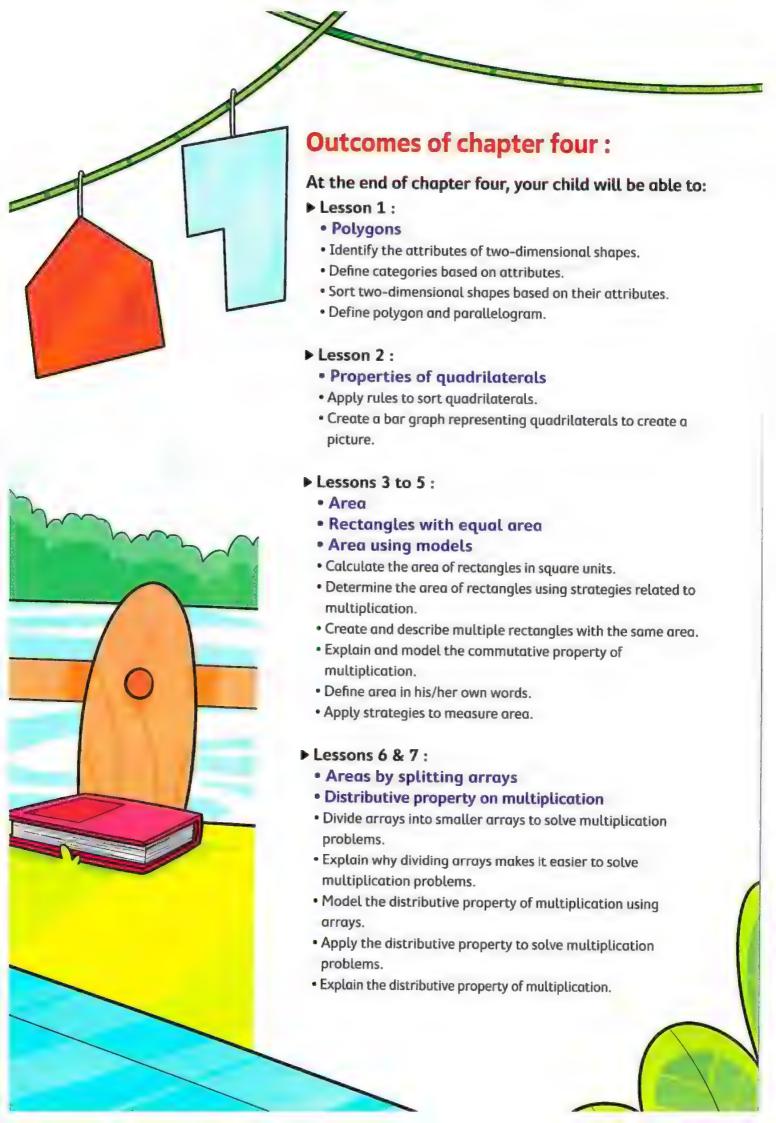
11 Choose the three numbers that can make a fact family. Then write the four related multiplication and division sentences.









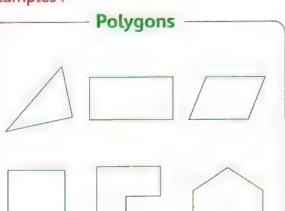


Polygons

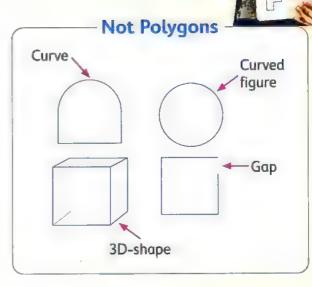


- o Polygons are closed two-dimensional figures.
- Closed figures are shapes do not have any gaps or curves between the lines that make it.

Examples:

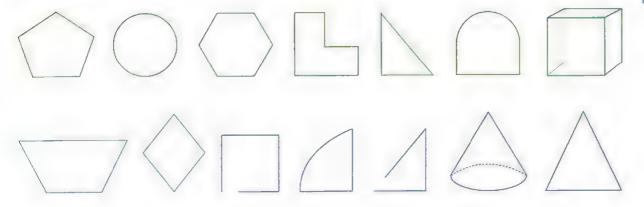


Polygons Do not have gaps or curves





Are the following figures polygons? Circle the polygons. Explain why or why not.



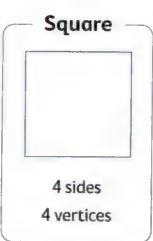


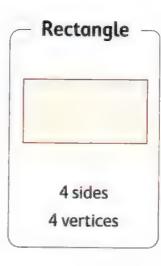
Notes for parents

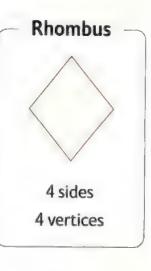
Learn 2 Identify the attributes of two-dimensional shapes

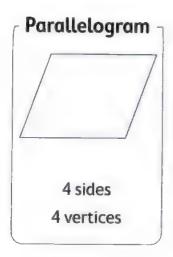
Triangle 3 sides

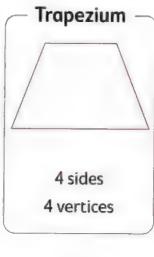
3 vertices

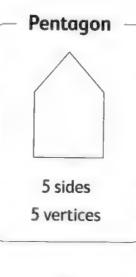


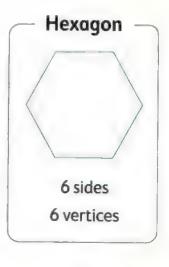


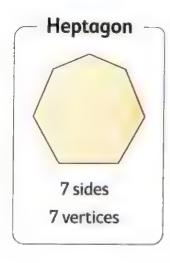


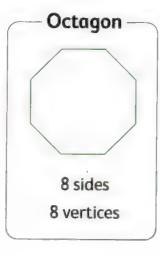


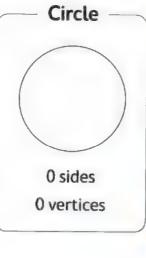


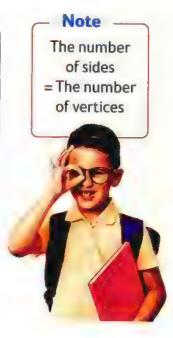














2D means

two-dimensional figures.

Identify each 2D shape, and write the number

of sides and vertices.	
Sides Vertices	Sides Vertices Name:
Sides Vertices Name:	d. Sides Vertices Name:
Sides Vertices Name:	f. Sides Vertices Name:
Sides Vertices Name:	h. Sides Vertices Name:
Sides Vertices Name:	j. Sides Vertices Name:

Chapter 4

Lesson 1

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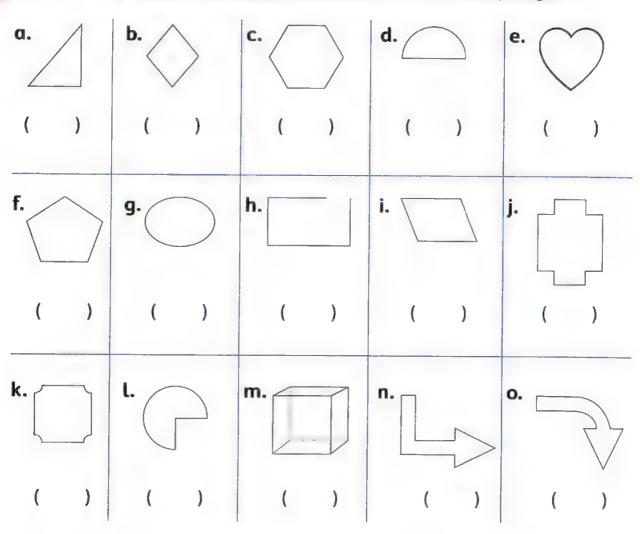
Notes for parents

Ask your child how many sides or vertices the octagon has.(8), is the octagon a polygon?

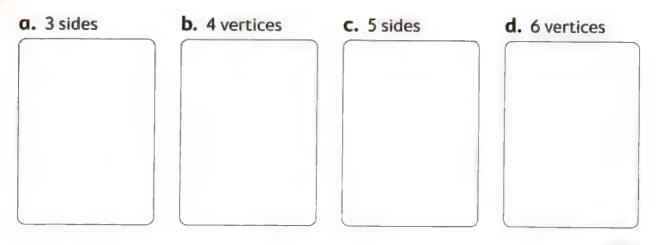
Exercise 18 On Lesson 1

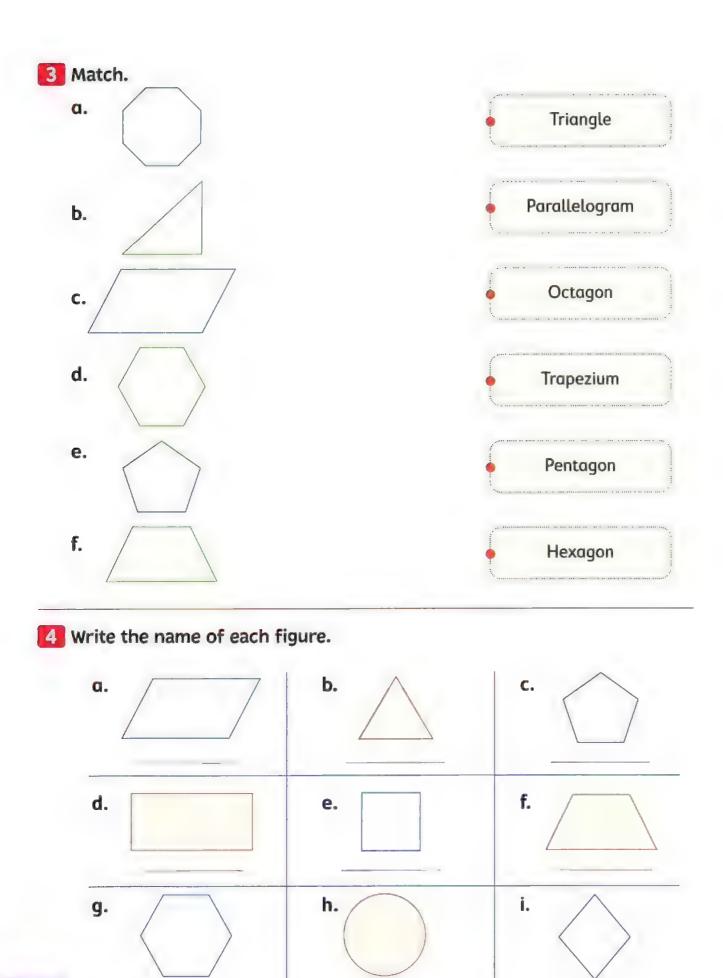
Polygons

1 Put (\checkmark) if the shape is a polygon, and put (X) if it is not polygon.



Draw a polygon with.





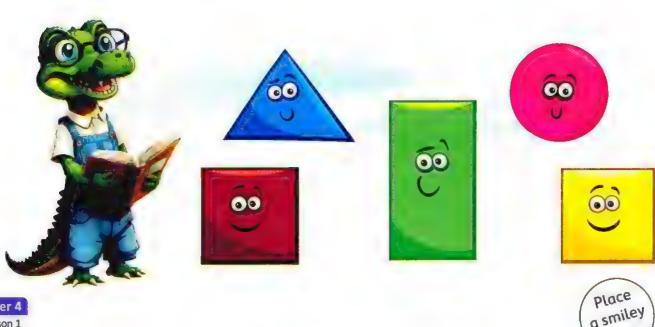
5 Complete the table. Check if the shape is a polygon or not.

		Attri	butes		
Shape	Name	Number of sides	Number of vertices	Polygon	
WELCOME					
ONE WAY					
M					
P					
\otimes					
STOP					

3 Put (\checkmark) to the correct statement or (X) to the incorrect statem	ent.	
a. A polygon is an open two-dimensional figure.	()
b. The hexagon has 6 sides.	()
c. A circle is a polygon.	()
d. The parallelogram is a polygon.	()
e. \triangle is called a triangle.	()
f. The pentagon has more than 5 sides.	()
g. Any polygon does not have gaps or curves.	()
h. In any polygon : the number of sides = the number of vertices.	()

7 Complete.

- a. The triangle has ______ sides and _____ vertices.
- **b.** The polygon which has ______ vertices is called octagon.
- c. The pentagon has ______ vertices and _____ sides.
- **d.** The polygon which has _____ sides is called heptagon.
- e. The _____ has 6 sides.
- f. The _____ has 7 vertices.





a smiley

Properties of quadrilaterals



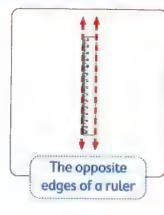
Learn Quadrilateral and parallelogram

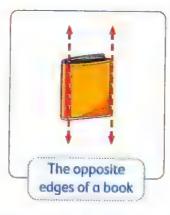
- A quadrilateral is a polygon with 4 straight sides and 4 vertices.
- A parallelogram is a quadrilateral shape (has four sides) that has each two opposite sides equal in length and parallel.

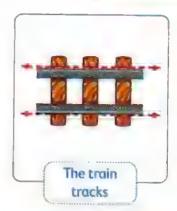


The blue lines are equal in length and parallel to each other and the red lines are equal in length and parallel to each other.

Examples for parallel lines:







Parallel lines can go on forever and never intersect.

Check (

Color the parallelogram of each. Explain why or why not.

All rectangles, squares and rhombuses are also parallelograms.













Notes for parents

· Let your child recognize that rectangles, squares and rhombuses are also parallelograms.

Examples for quadrilaterals:



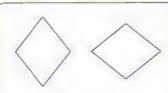
Parallelogram

- 2 pairs of parallel sides
- 2 pairs of equal sides
- 4 vertices



Rectangle

- 2 pairs of parallel sides
- 2 pairs of equal sides
- 4 similar vertices



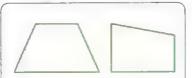
Rhombus

- 2 pairs of parallel sides
- 4 equal sides
- 4 vertices



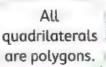
Square

- 2 pairs of parallel sides
- 4 equal sides
- 4 similar vertices



Trapezium

- exactly 1 pair of parallel sides
- lengths of sides may not be the same
- 4 vertices







Match each property to all suitable quadrilaterals.

a. 2 pairs of parallel sides

b. 4 equal sides

- 1.
- 2.
- 3.
- 4.
- 5.

c. Exactly 1 pair of parallel sides

d. 4 vertices similar



Lesson 2

Notes for parents

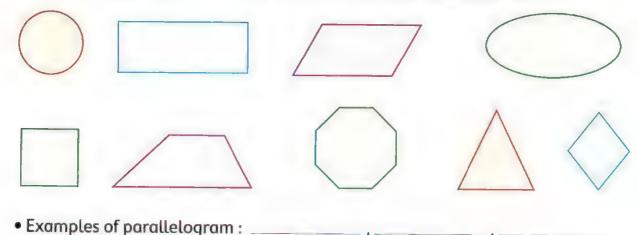
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· Ask your child to mention examples for quadrilaterals and draw more quadrilateral and define it.

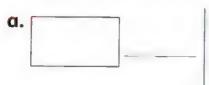
Exercise On Lesson 2

Properties of quadrilaterals

Cross out the shape that does not show a parallelogram. Explain why, write the examples that show a parallelogram.



Write a name for each quadrilateral.





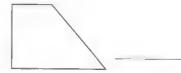


d.





f.



- Choose the correct answer.
 - **a.** The quadrilateral has ______ vertices.

- (1 or 2 or 3 or 4)
- **b.** The parallelogram has _____ pairs of equal sides.
- (1 or 2 or 3 or 4)

c. The square has ______ equal sides.

(1 or 2 or 3 or 4)

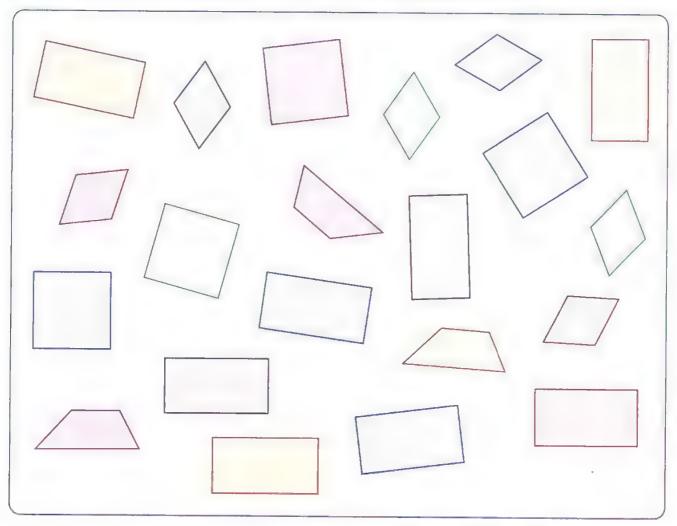
- **d.** The rectangle has _____ similar vertices.
- (1 or 2 or 3 or 4)

- e. The trapezium has exactly _____ pair of parallel sides. (1 or 2 or 3 or 4)
- **f.** The rhombus has ______ vertices.

(1 or 2 or 3 or 4)

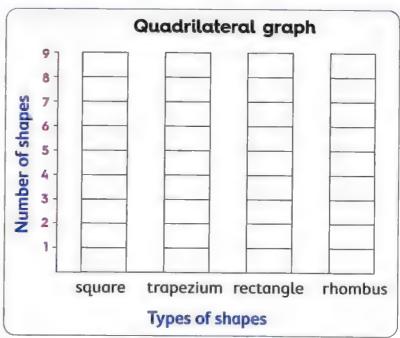
4 Co	mplete. (write the name of the shape)	H	
a.	The quadrilateral which has only 1 pair parallel sides is called		
b.	The polygon which has 4 sides is called		
c.	The quadrilateral which has 4 equal sides and 4 similar vertices is called		
d.	The quadrilateral which has 4 equal sides and 4 not similar vertices is called	Ro	1.0
e.	The quadrilateral which has 4 similar vertices and 4 not equit is called	ial sides	
	t (/) to the correct statement or (X) to the incorrect sta	atement.	
	The quadrilateral is a polygon which has 4 sides. The parallelogram has exactly 1 pair of parallel sides.	()
	The paratetogram has exactly a pair or paratetorists	`	,
	The square has 4 similar vertices.	()
	The square has 4 similar vertices. The rectangle's vertices are not similar.	()
e.	-	()
e. f.	The rectangle's vertices are not similar.	(()))
f.	The rectangle's vertices are not similar. The rhombus has 2 pairs of parallel sides.	((()))
f. g.	The rectangle's vertices are not similar. The rhombus has 2 pairs of parallel sides. The trapezium has more than 1 pair of parallel sides.	(((((((((((((((((((())))
f. g.	The rectangle's vertices are not similar. The rhombus has 2 pairs of parallel sides. The trapezium has more than 1 pair of parallel sides. The circle is a polygon which has no vertices.	(((((((((((((((((((()))))

6 Use the following figures to fill in the bar graph below.



From the graph:

- a. Which quadrilateral is the most?
- **b.** Which quadrilateral is the least?
- **c.** How many parallelograms?



place a smiley face

3 to 5

- Area
- Rectangles with equal area
- Area using models

Learn 1 Area

- Area is the number of square units needed to cover the surface of a figure.
- A square unit is a square with a side length of 1 unit and it is the unit used to measure area.
- You can count or multiply square units to find area.

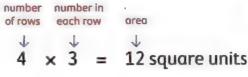
Counting strategy

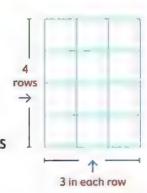
To find area of a rectangle, count the squares inside the rectangle.

1	2	3
4	5	6
7	8	9
10	11	12

Multiplying strategy (Array)

To find area of rectangle, multiply the number of rows by the number in each row.

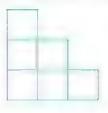




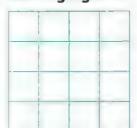
Example 1

Find the area of each of the following figures.

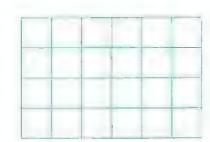
α.



h

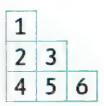


C.



Solution V

a.





Area =
$$4 \times 4 = 16$$



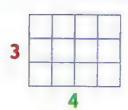
Area =
$$4 \times 6 = 24$$

Notes for parents

 Let your child know that there are many strategies to find the area, let him/her discover another strategy.

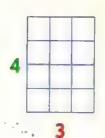
Learn 2 Rectangles with equal area

 There are more than one rectangle that look different but have the same area.



3 rows of 4

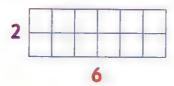
Area = $3 \times 4 = 12$ square units



Commutative property of multiplication $3\times4=4\times3$

4 rows of 3

Area = $4 \times 3 = 12$ square units



2 rows of 6

Area = $2 \times 6 = 12$ square units

Example (2)

Draw on the grid rectangles with an area of 6 square units.

Solution 🗸



To draw rectangles with an area of 6 square units search for 2 numbers their product equals 6. You will find:

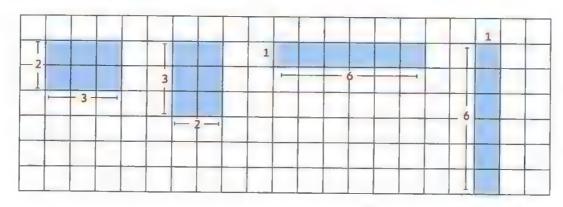
$$2 \times 3 = 6$$

$$3 \times 2 = 6$$

$$1 \times 6 = 6$$

$$6 \times 1 = 6$$

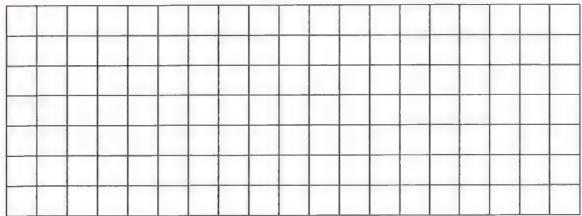
You can draw 4 rectangles.



[•] Tell your child that area is a part of our daily life it can be used in : purchasing a rug, creating a football field, painting a wall, or laying tiles on a floor.



rea = square units	Area = square units	Area = square unit
in each row	in each row	in each row
rows	rows	rows





Notes for parents

Help your child calculate the area of each figure using different strategies such as: divide each
figure into many parts and calculate the area of each part and combine them all or count the
squares one by one.

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- To calculate the area of a rectangle or a square using models, you can use the dimensions of the figure.
- Dimensions are calculated by the number of rows and the number of columns of the rectangle.



5 columns

J Columns

3 rows

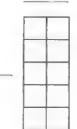
For example	-
-------------	---

Area of the rectangle = $3 \times 5 = \boxed{15}$ square units

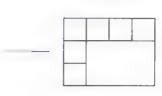
Check	
	-

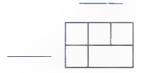
Calculate the total area of each figure.

Area = ___ x ___ = ___ square units

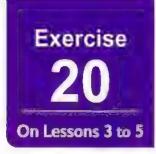


Area = ___ x ___ = ___ square units





[•] Ask your child to determine the total area of a rectangle with dimensions 5 units and 4 units and a square with dimension of 5 units.

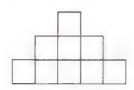


- Area
- Rectangles with equal area
- Area using models

From the school book

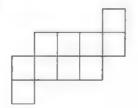
First: Exercises on area

Calculate the area of each of the following.



Area = _

b.

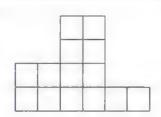


Area = -

Remember

= 1 square unit

C.



Area = ____

d.



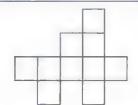
Area =

e.

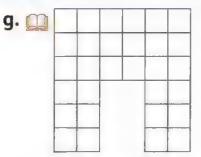


Area = _

f.

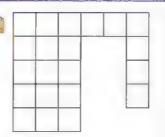


Area =



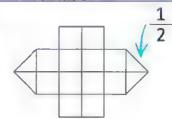
Area = -

h. 🕮

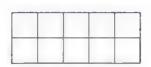


Area = _

i.

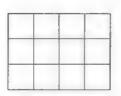


Area = _



Area = ___ x ___

k.



Area = ____ x _

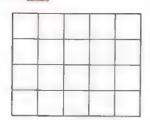
l.



Area = - x -

2 Calculate the area of each figure.

a. 📖



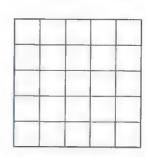
Area = ____

b. 📖



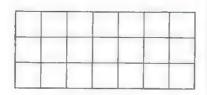
Area = ____

C.



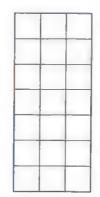
Area = ____

d.



Area =

е. 📖



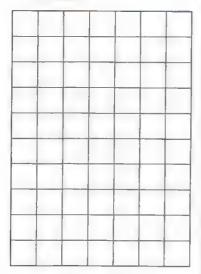
Area = ____

f.



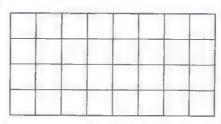
Area = _____

g. 🛄



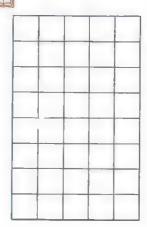
Area = _____

h. 🔟



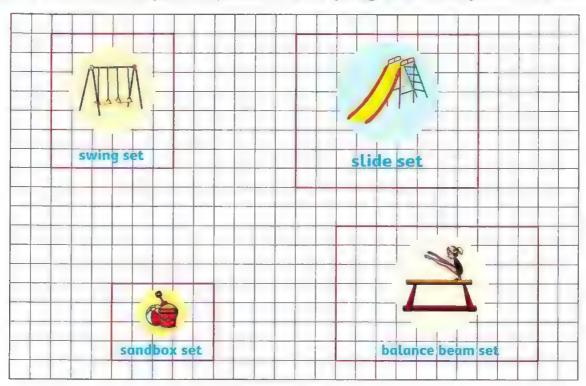
Area = ____

i. 📖



Area = _____

3 Here are some things were placed in your playground. Complete the following.



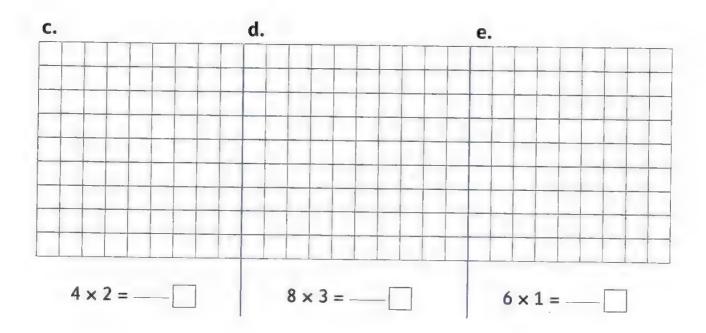
- **a.** The area of swing set = _____ x ___ = ____ square units.
- **b.** The area of slide set = ____ × ___ = ___ square units.
- **c.** The area of sandbox set = ____ x ___ = ___ square units.
- **d.** The area of balance beam set = ____ × ___ = ___ square units.

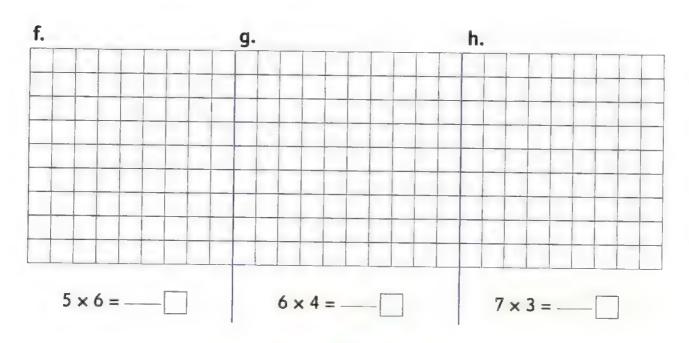
Use grid to draw a rectangle represents each of the following sentences and calculate the area as the example.

Example: a. b.



$$3 \times 5 = 15$$



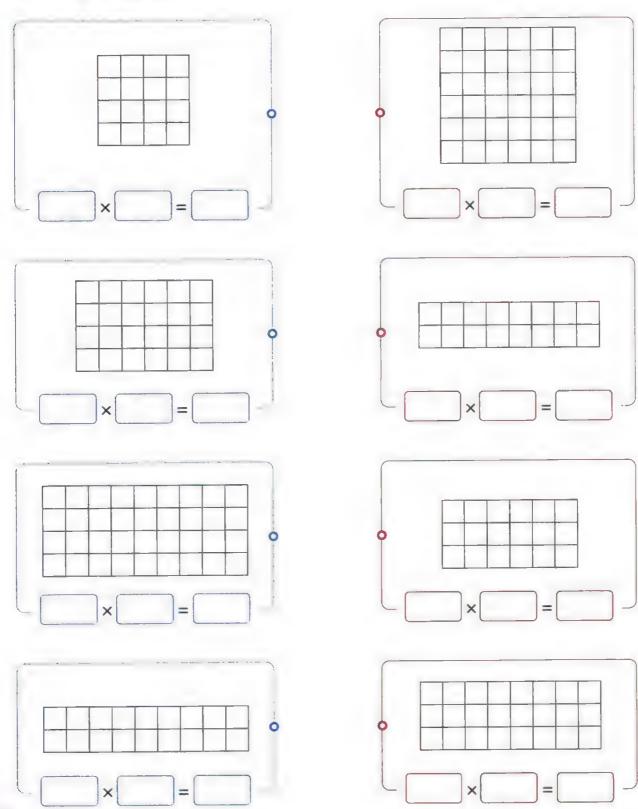




Second: Exercises on rectangles with equal area

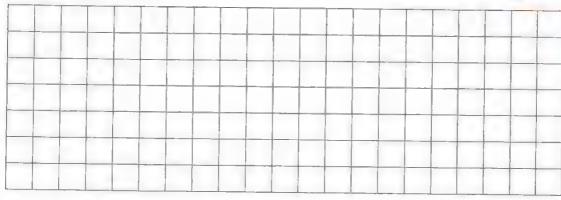
1 Complete the equations under each of the following.

Match the equal areas.

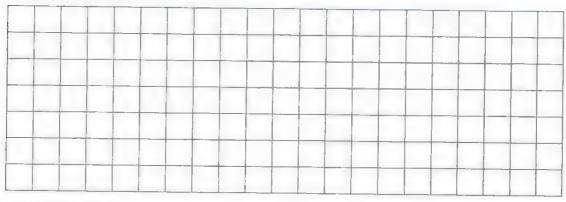


2 Use commutative property to draw two different rectangles of the following dimensions. Multiply to find the area.

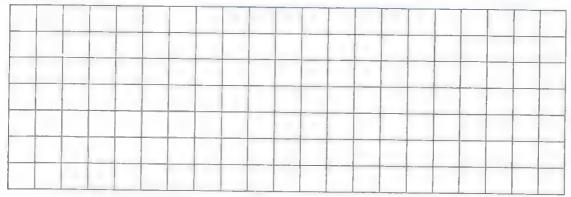




b. 3 units , 4 units.

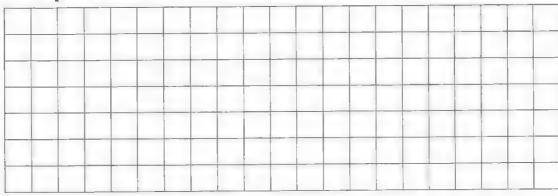


c. 4 units, 5 units.

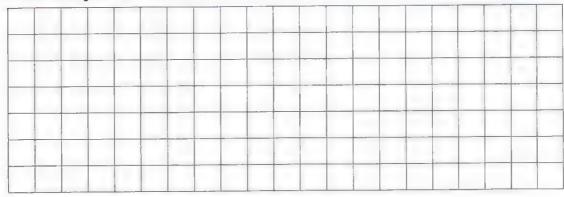


3 Draw on the grids rectangles with different dimensions with an area of each of the following. Write the multiplication equations for each rectangle.

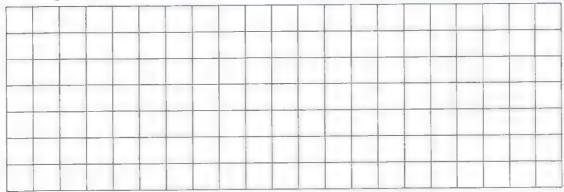
a. 12 square units.



b. 🛄 18 square units.



c. 24 square units.

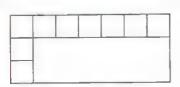


Sho					How ders and			grid b	elow.	
T.										
_										
-										
			_							
_										
Λmir	a want	red to	nlant (24 flow	vors If a	one flow	vor noo	ds 1 s		
Shov	v two v	vays fo	or the	area o	ers. If of the second s	iare uni	ts.		quare	unit.
Shov	v two v	vays fo	or the	area o	F 24 Squ	iare uni	ts.		quare	unit.
Shov	v two v	vays fo	or the	area o	F 24 Squ	iare uni	ts.		quare	unit.
Shov	v two v	vays fo	or the	area o	F 24 Squ	iare uni	ts.		quare	unit.
Shov	v two v	vays fo	or the	area o	F 24 Squ	iare uni	ts.		quare	unit.
Shov	v two v	vays fo	or the	area o	F 24 Squ	iare uni	ts.		quare	unit.
Shov	v two v	vays fo	or the	area o	F 24 Squ	iare uni	ts.		quare	unit.

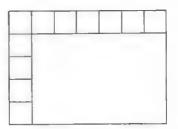
Third: Exercises on area using models

1 Determine the total area of each shape.

a.

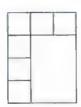


Area = $\frac{1}{\text{rows}} \times \frac{1}{\text{columns}}$ = $\frac{1}{\text{square units}}$ b.

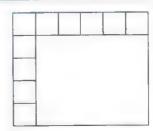


Area = $\frac{1}{\text{rows}} \times \frac{1}{\text{columns}}$ = $\frac{1}{\text{square units}}$

c.

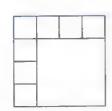


Area = $\frac{}{\text{rows}} \times \frac{}{\text{columns}}$ = $\frac{}{}$ square units d.



Area = $\frac{1}{\text{rows}} \times \frac{1}{\text{columns}}$ = $\frac{1}{\text{square units}}$

e.



Area = $\frac{1}{\text{rows}} \times \frac{1}{\text{columns}}$ = $\frac{1}{\text{square units}}$ f.

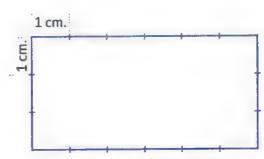


Area = $\frac{1}{\text{rows}} \times \frac{1}{\text{columns}}$ = $\frac{1}{\text{square units}}$

Challenge (C

Use your ruler to measure the width and the length of the rectangle.

Calculate the area of the rectangle.



- Areas by splitting arrays
- Distributive property on multiplication

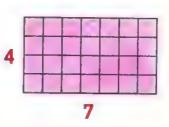
Learn

Distributive property

- Distributive property tells us we can divide (split) a multiplication problem into two or more smaller problems, add together their products, and get the final answer.
- To find how many squares in big arrays as the following array:

Multiply the number of rows by the number in each row.

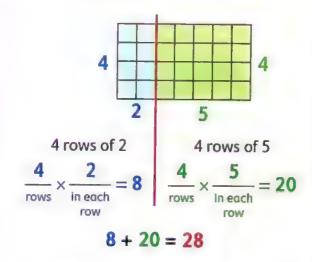
$$\frac{4}{\text{rows}} \times \frac{7}{\text{in each}} = \frac{28}{\text{Total}}$$





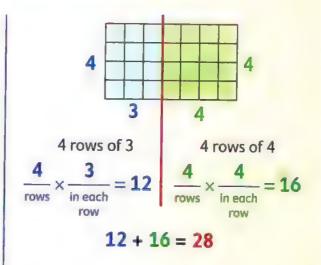
Another way using distributive property:

Split an array into two smaller arrays and add the products of the two arrays. (There are more than one correct way to break apart an array).



From above:

$$4\times7=(4\times2)+(4\times5)$$



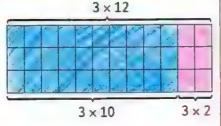
$$4\times7=(4\times3)+(4\times4)$$

Example (1)

Find the product of 3×12 in 3 ways using distributive property.

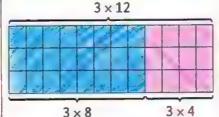
Solution (





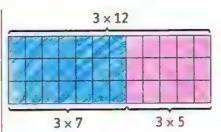
$$3 \times 12 = 3 \times 10 + 3 \times 2$$

= 30 + 6
= 36



$$3 \times 12 = 3 \times 8 + 3 \times 4$$

= 24 + 12
= 36



$$3 \times 12 = 3 \times 7 + 3 \times 5$$

= 21 + 15
= 36

Example (2)

Use the distributive property to complete the following.

a.
$$5 \times 8 = (5 \times 6) + (5 \times ____)$$

a.
$$5 \times 8 = (5 \times 6) + (5 \times 2)$$
 b. $3 \times 2 = (3 \times 5) + (3 \times 2)$

Solution 🗸



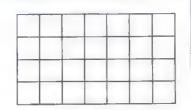
a.
$$5 \times 8 = (5 \times 6) + (5 \times 2)$$
 [Hint: $8 = 6 + 2$]

b.
$$3 \times 7 = (3 \times 5) + (3 \times 2)$$
 [Hint: $5 + 2 = 7$]



Check (

1. Find another way to split the same array. Write the two equations of the two smaller arrays.



2. Complete the following.

a.
$$6 \times 8 = (6 \times 3) + (6 \times \underline{\hspace{1cm}})$$

c.
$$(3 \times 5) + (3 \times 6) = 3 \times$$

a.
$$6 \times 8 = (6 \times 3) + (6 \times 2 \times 9 = (2 \times 5) + (2 \times 2)$$

d.
$$4 \times 7 = (4 \times __) + (4 \times 6)$$

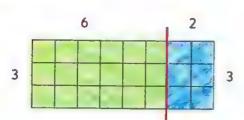


- Areas by splitting arrays
- Distributive property on multiplication

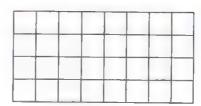
From the school book

1 Split the following arrays into two smaller arrays and label the factors for each part as the example.

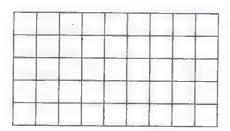
Example:



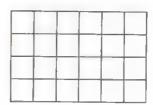
a. 🛄



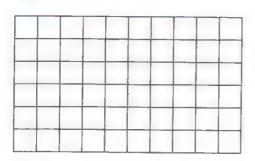
b.



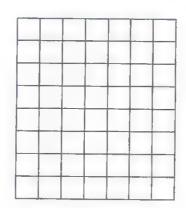
c. 🕮



d. 📖

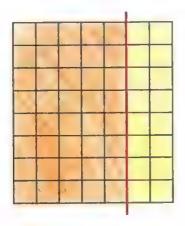


e.

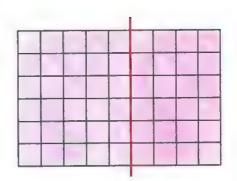


2 Write the distributive property equation of each.

a.



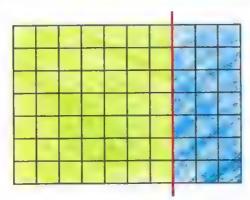
b.



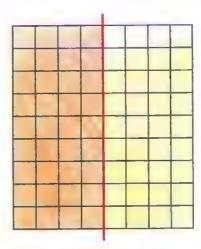
8 × = (×) + (×)

× = (×) + (×)

C.



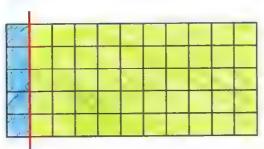
d.



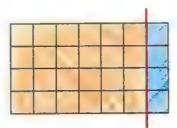
× = (×) + (×)

× =	(×) + (×)
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e.



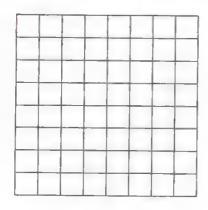
f.



x = (x) + (x)

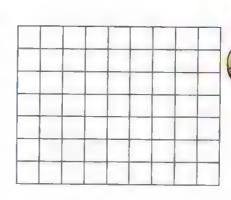
3 Split the following arrays according to the distributive property equations.

a.



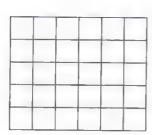
$$8 \times 8 = (8 \times 5) + (8 \times 3)$$

b.



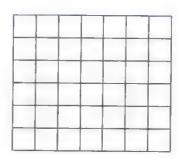
$$7 \times 9 = (7 \times 2) + (7 \times 7)$$

c.



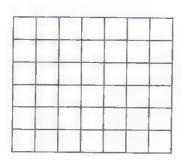
$$5 \times 6 = (5 \times 4) + (5 \times 2)$$

d.



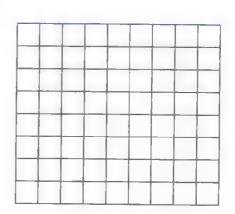
$$6\times7=(6\times1)+(6\times6)$$

e.



$$6 \times 7 = (6 \times 3) + (6 \times 4)$$

f.

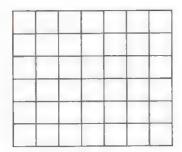


$$8 \times 9 = (8 \times 4) + (8 \times 5)$$

4 Split the arrays, using the distributive property write the equations.

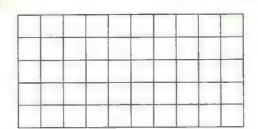


a.



$$6 \times 7 = (___ \times ___) + (___ \times ___)$$

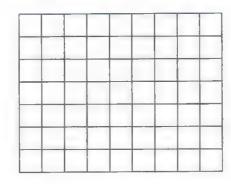
b. 🕮



C.



d.



e. 🙉



× =

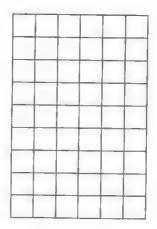
× =

+ =

8 × 2 =

8 × 2 = (_ _ × _ __) + (___ × _ __)

f.



× =

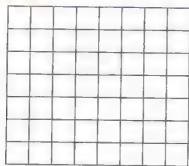
× =

+ = (

9 × 6 =

9 × 6 = (___ × __) + (_ _ × __)

g.



× =

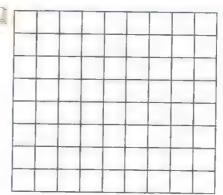
× =

+ =

7 × 8 =

7 × 8 = (____ × ____) + (___ × ____)

h.



x =

× =

+ =

8 × 9 =

8 × 9 = (___ × ___) + (__ × ___)

5 Use the distributive property to complete the following equations.

a.
$$3 \times 9 = (3 \times 6) + (3 \times 2)$$

b.
$$4 \times 7 = (4 \times 2) + (4 \times 2)$$

c.
$$6 \times 6 = (6 \times 5) + (6 \times ___)$$

d.
$$9 \times 13 = (9 \times 7) + (9 \times __)$$

f.
$$4 \times 8 = (4 \times 4) + (\times \times)$$

g.
$$5 \times 15 = (5 \times 5) + ($$
_______)

h.
$$7 \times \underline{\hspace{1cm}} = (7 \times 6) + (7 \times 4)$$

i.
$$8 \times 12 = (\times 2) + (8 \times 12)$$

j.
$$3 \times 11 = (\underline{} \times 10) + (3 \times \underline{})$$

k.
$$7 \times 9 = (\underline{\hspace{1cm}} \times 4) + (7 \times \underline{\hspace{1cm}})$$

$$l. = (5 \times 6) + (5 \times 1)$$

6 Use the distributive property to complete the following equations and find the total.

a.
$$6 \times 7 = (6 \times 2) + (6 \times \underline{\hspace{1cm}})$$

b.
$$9 \times 8 = (9 \times 4) + (9 \times 2)$$

c.
$$4 \times 9 = (4 \times ____) + (___ \times 5)$$

d.
$$12 \times 2 = ($$
 $\times 1) + ($ $\times 12)$

e.
$$10 \times 11 = (__ \times 10) + (__ \times 1)$$

e.
$$10 \times 11 = ($$
 ___ $\times 10) + ($ __ $\times 1)$ | **f.** $5 \times 7 = ($ __ $\times 6) + ($ ___ \times __)

g.
$$9 \times 6 = ($$
____ $\times 3) + ($ ___ \times ___) **h.** $3 \times 14 = ($ ___ $\times 4) + ($ ___ \times ___)

h
$$3 \times 14 = ($$
 $\times 4) + ($ \times

Chapter 4 Lessons 6 & 7

7 Match.

- 3×10
- b. 7×6
- 4×9
- d. 9×13
- e. 6×11

- $(4\times5)+(4\times4)$
- $(3\times7)+(3\times3)$
- $(7\times5)+(7\times1)$
- $(6\times6)+(6\times5)$
- $(9 \times 10) + (9 \times 3)$

8 Choose the correct answer.

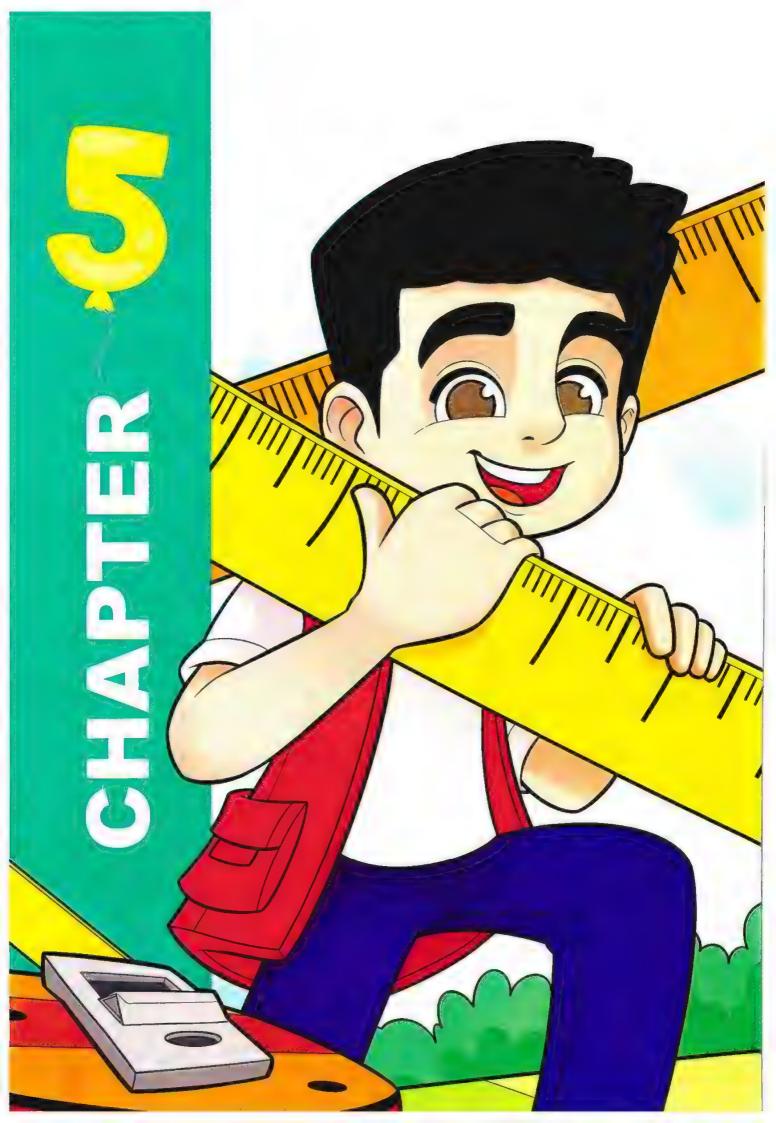
- **a.** $5 \times 11 = (5 \times 10) + (5 \times ___)$
- **b.** $7 \times$ ____ = $(7 \times 10) + (7 \times 3)$
- **c.** $(4 \times 9) + (4 \times 6) =$ $\times 15$
- **d.** $6 \times 13 = (6 \times \underline{\hspace{1cm}}) + (6 \times 3)$
- **e.** $4 \times 10 = (4 \times \triangle) + (4 \times \bigcirc)$, then $\triangle + \bigcirc =$ _____ (4 or 6 or 8 or 10)

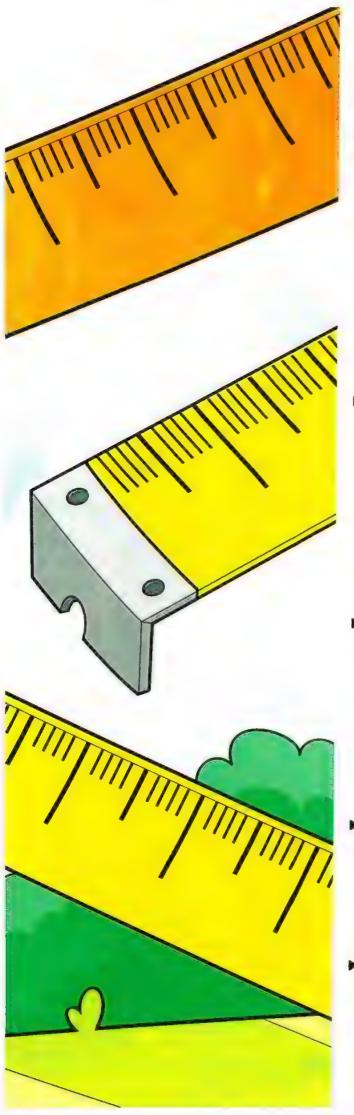
- (1 or 5 or 10 or 11)
- (7 or 10 or 13 or 30)
 - (4 or 6 or 9 or 15)
 - (3 or 6 or 10 or 13)











Outcomes of chapter five:

At the end of chapter five, your child will be able to:

▶ Lessons 1 & 2 :

- Perimeter of polygons
- Perimeter and area
- Measure the lengths of sides of polygons in centimeters.
- Define perimeter.
- Calculate the perimeters of polygons in centimeters.
- Explain why perimeter is a linear measurement.
- Explain the difference between perimeter and area.
- Calculate the perimeter and area of given arrays with some units missing.

▶ Lessons 3 & 4 :

- Area using dimensions
- Area using different strategies
- Explain why area is not a linear measurement.
- Calculate the area of a rectangle given only the length and width.
- Describe the problem-solving strategies they used to solve area problems.
- Apply a variety of strategies to solve area problems.
- Explain the strategies they used to solve area problems.

▶ Lessons 5 & 6 :

- Different perimeters for the same area
- Different areas for the same perimeter
- Construct different rectangles with the same area.
- Compare the perimeters of rectangles with the same area but different dimensions.
- Construct different rectangles with the same perimeter.
- Compare the areas of rectangles with the same perimeter but different dimensions.

▶ Lesson 7:

- Applications on perimeter and area
- Apply strategies to solve real-world area and perimeter problems.
- Apply his/her understanding of area and perimeter to write story problems.

Lesson 8:

- Multiplying by multiples of 10
- Multiply by 10 and multiples of 10.
- Identify and explain patterns observed when multiplying by 10s.

Lucsons

- Perimeter of polygons
- Perimeter and area



Learn 1 Perimeter of a polygon

• The perimeter is the distance around a figure or a polygon.

O First:

You can find the perimeter by counting the units along the outside of the figure.

The perimeter of the opposite

figure = 16 cm

Second:

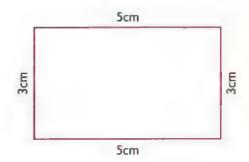
You can find the perimeter by adding all the side lengths of the polygon.

The perimeter of the opposite figure

$$= 5 + 3 + 5 + 3 = 16$$
 cm



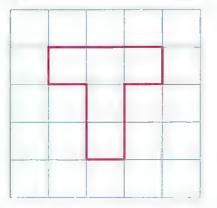
5		1	***************************************		Ĭ		
Start		1 cm	2	3	4	5	
	16						6
	15						7
	14						8
1		13	12	11	10	9	
		13	12	11	10	9	



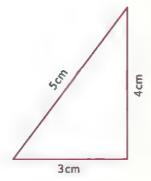
Example (1)

Find the perimeter of each figure.

a.



b.





Notes for parents

· Help your child find the perimeter of each figure.

Solution 🗸

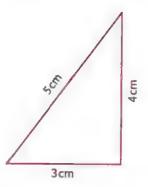


a.

	5	6	7	
4			1	8
	3 2		10 9	
Star	1		11	
		12		

Perimeter = 12 units.

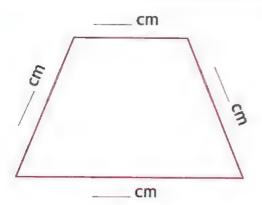
b.



Perimeter = 3 + 4 + 5 = 12 cm

Example (2)

Measure each side. Add to find the perimeter.



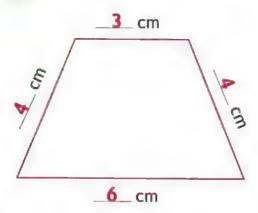
Math tip

Measuring length in one direction as length, width, distance between the endpoints of a side in a polygon is called linear measurement.

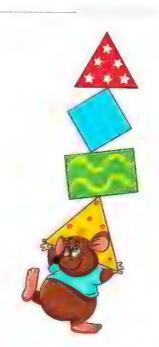
Perimeter = _

Solution (





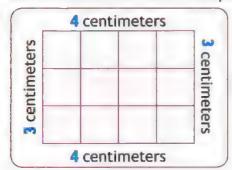
Perimeter = $\frac{3}{4} + \frac{4}{4} + \frac{6}{6} = \frac{17}{17}$ cm



What is the perimeter and the area of this shape?

The difference between the perimeter and the area:

- * Perimeter: Measurement of the distance around the shape.
- * Area: Measurement of the space inside the shape.



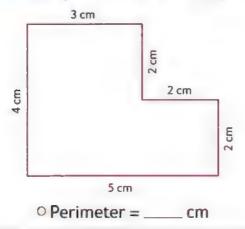
Perimeter = 4 + 3 + 4 + 3= 14 centimeters.

-	4	centir	neter	S	Sun-
ters	1	2	3	4	3 ce
3 centimeters	5	6	7	8	centimeters
	9	10	11	12	ters
L	4	centi	mete	rs	

Area = 12 square centimeters.

Check 🔘

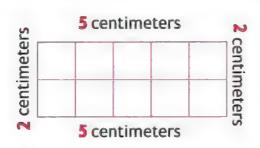
1. Find the perimeter of each figure.



Cm cm

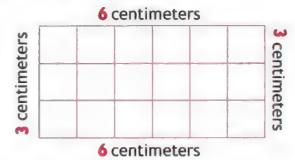
• Perimeter = ____ cm

2. Find the perimeter and the area of each of the following figures.





• Area = _____ square centimeters.



o Perimeter = ____ + ___ + ___ +

____ = ___ cm

• Area = _____ square centimeters.

Lessons 1 & 2

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Notes for parents

- Help your child use a ruler to measure the side length.
- Let your child color or cross off as he/she counts to avoid counting twice or skipping units.

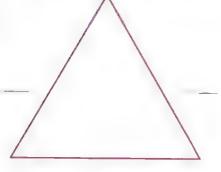
- Perimeter of polygons
- Perimeter and area

1 Measure each side and find the perimeter of each polygon.

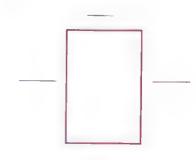
then, 1 Color the polygon with the greatest perimeter in red.

- 2 Color the polygon with the smallest perimeter in green.
- 3 Color the polygon with the same perimeter in blue.

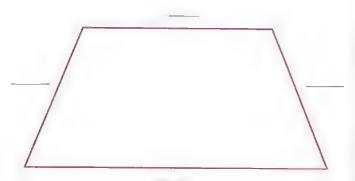
α.



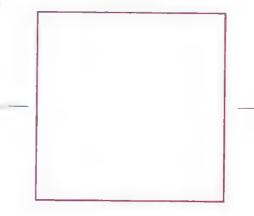
b.



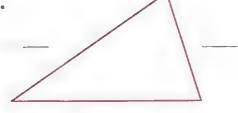
c.



d.



e.

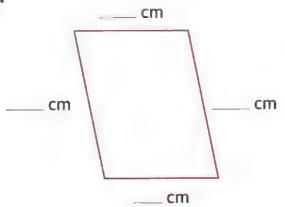


Perimeter = ____ + ___ + ____ = ___ cm f.



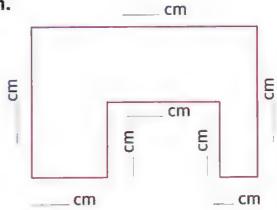
Perimeter = ____ + ___ + ___ + ___ + ___ = ___ cm

g.



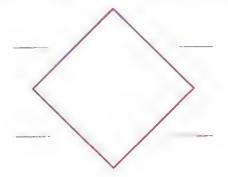
Perimeter = ____ + ___ + ___ + ____ + ____ = ___ cm

h.



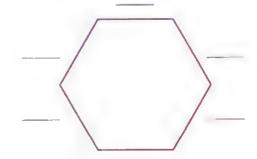
Perimeter = ___ + __ + __ + __ + __ + __ + __ = __ cm

i.



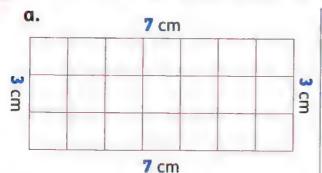
Perimeter = ____ + ___ + ___ + ___ + ___ = ___ cm

j.



Perimeter = ____ + ___ + ___ + ___ + ___ + ___ cm

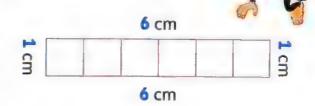
Find the perimeter and the area of each of the following figures.



Perimeter = ____ cm

Area = ____ square centimeters

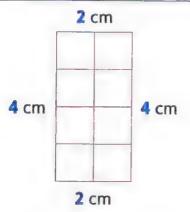
b.



Perimeter = ____ cm

Area = ____ square centimeters

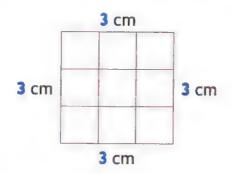
c.



Perimeter = ____ cm

Area = ____ square centimeters

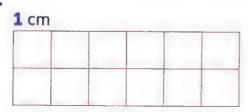
d.



Perimeter = ____ cm

Area = ____ square centimeters

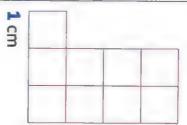
e.



Perimeter = ____ cm

Area = ____ square centimeters

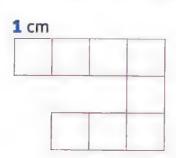
f.



Perimeter = ____ cm

Area = ____ square centimeters

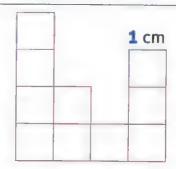
g.



Perimeter = ____ cm

Area = ____ square centimeters

h.

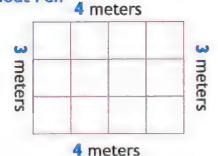


Perimeter = ____ cm

Area = ____ square centimeters

3 Solve the perimeter and area problems below.

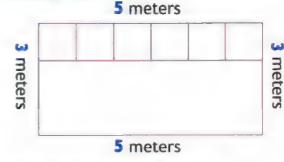
a. Goat Pen



Perimeter = ____ meters

Area = ____ square meters

b. Chicken Pen

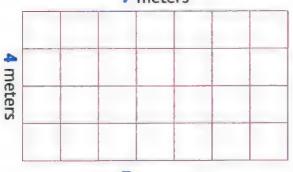


Perimeter = ____ meters

Area = ____ square meters

c. A New Goat Pen

7 meters

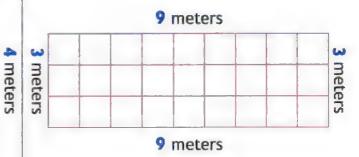


7 meters

Perimeter = ____ meters

Area = ____ square meters

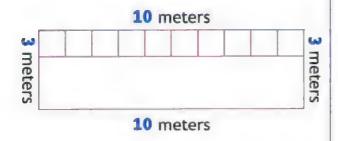
d. Cattle Pen



Perimeter = ____ meters

Area = ____ square meters

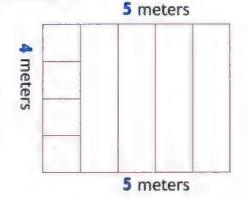
e. Sheep Pen



Perimeter = ____ meters

Area = ____ square meters

f. Duck Pen



Perimeter = ____ meters

Area = ____ square meters

Answer:



q. How much fencing would you need to make ALL of these pens?

h. How many square meters of space would the animals have if you combined ALL of the pens?

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4	Look	at	the	picture.	Then	answer.
---	------	----	-----	----------	------	---------

Consider the side length of the small square on the grid is 1 meter.

SAILE STATE	

a. What is the area of the backyard?

_____square meters

b. What is the perimeter of the house?

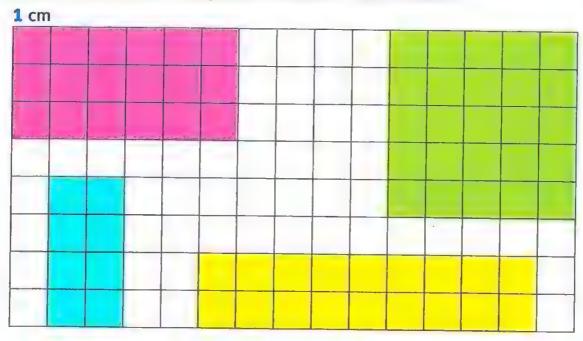
____ meters

c. Are the area of warehouse and the area of garden equal? Show your work.

d. Are the perimeter of parking and the perimeter of swimming pool equal? Show your work.

	Backyard		
-Swimming pool	House	Warehouse	
Garden		Parking	

5 Look at the picture. Complete the table. Then answer.



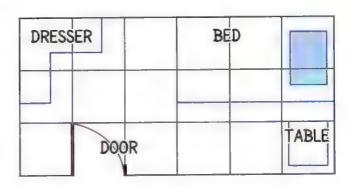
Region	Perimeter in centimeters	Area in square centimeters
Red		
Green		
Blue		
Yellow		

- a. What is the color of the greatest region in area? ____
- **b.** Arrange the perimeters of regions in an ascending order.

Order is ________

Challenge (C)

6 Laila wants to put a new desk in her room. She drew a picture of her room to help figure out where it will fit



Does Laila have space for her new desk? _____
Color where could she put it.

DESK

Place a smiley face

Lessuins

- Area using dimensions
- Area using different strategies



Learn 1 Area of rectangle given its dimensions

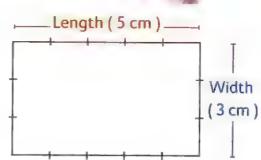
Instead of counting square units, you can use a formula to find the area of rectangle.



For example:

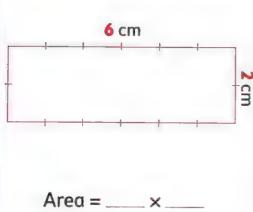
The dimensions of the rectangle are 5 cm (Length) and 3 cm (Width)

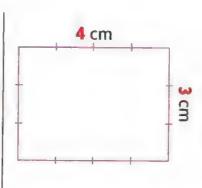
15 square centimeters

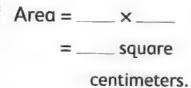


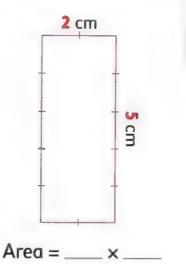
Check (

Find the area of each figure.









Notes for parents

Help your child find the area of a rectangle using formula.

Learn 2 Calculating the area using different strategies

• Ahmed wants to put artificial grass in his garden.

The garden is a rectangle

5 meters long and 3 meters wide.

How many square meters of artificial grass does Ahmed need?



- To find how many square meters of artificial grass, find area of the floor.
- There are different strategies to find the area of the rectangle.

Strategy 1

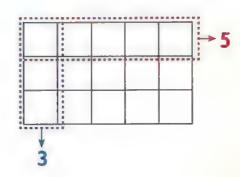
5 columns

	1	2	3	4	5
3 rows	6	7	8	9	10
10443	11	12	13	14	15

Count all of the squares in the array.

Area = 15 square meters

Strategy 2



Add

$$5+5+5=15$$
 or $3+3+3+3+3=15$

Area = 15 square meters

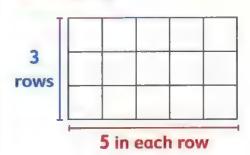
Strategy 3

Split the array into two smaller arrays. Solve both and add the sums.

Area =
$$3 \times 5 = (3 \times 2) + (3 \times 3)$$

= $6 + 9 = 15$ square meters

Strategy 4



Multiply units "Formula of area of a rectangle".

Area = $3 \times 5 = 15$ square meters

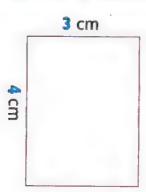


- Area using dimensions
- Area using different strategies

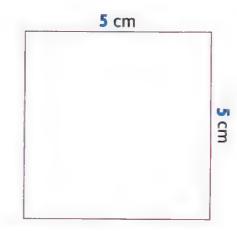
From the school book

1 Find the area of each figure.

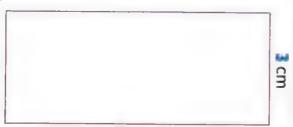
a.



b.



c.

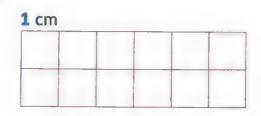


7 cm

Area = ____ × ____

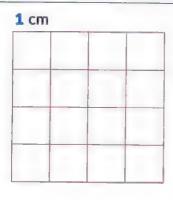
= ____ square centimeters.

d.

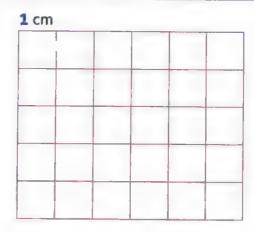


Area = ____ × ___ = ___ square centimeters.

e.



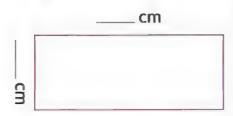
Area = ____ × ___ = ___ square centimeters. f.



Area = ___ x ___ = ___ square centimeters. 2 Use a centimeter ruler to measure the side lengths. Then find the area of

each figure.

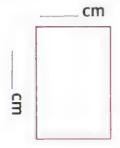
a.



Area = ____ × ___ = ___ square

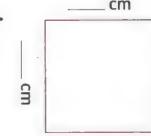
= ____ square centimeters.

b.



Area = ____ x ____

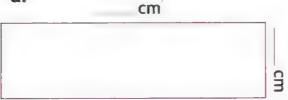
c.



Area = ____ × ____

3 Find the area of each figure. Then color the figure with the greatest area in red.

a.



Area = ____ × ____

= ____ square

centimeters.

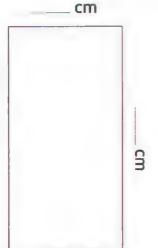
b.



___cm

centimeters.

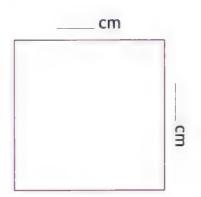
c.



Area = ____ × ____

centimeters.

d.



Area = ___ × ___

centimeters.

• Car > 18 square meters.	• Motorcycle < 8 square meters.
a square meters.	square meters.
 Lorry < 30 square meters. but > 26 square meters. 	○ Bus > 20 square meters.
The second second	SCHOOL BUS SCHOOL BUS A
8 m	5 m
	4 3
Area = Name :	Area = Name :
Po	arking
	7 m
4 m	
Area =	Area =
Name :	Name :

5 Find the area of each figure in two ways. a. 🗔 -Way 10--Way 2 Area = _____ square Area = _____ square units. units. b. -Way 🕕 -Way 2 1 cm Area = _____square Area = _____ square centimeters. centimeters. c. A 3 units -Way 🕕 -Way 2 Area = _____ square Area = _____ square units. units. d. 5 cm -- Way 10 --Way 2

Area = ____ square

centimeters.



Area = _____ square

centimeters.

e.

-Way 1	
Area =	square centimeters.

-Way 2	
Area =	square centimeters.



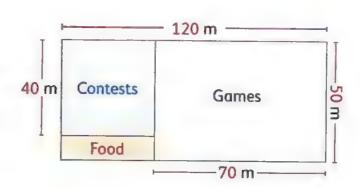


Challenge (C



The opposite figure shows how a school field was sectioned off for the end-of-year picnic.

What is the area of food section in square meters?









Lussams

- Different perimeters for the same area
- Different areas for the same perimeter



Learn 1 Different perimeters for the same area

• Amgad wants to plant a rectangular flower garden in his backyard.

The area of the garden has to be 12 square meters, and he wants to use the least amount of fencing possible.

How long should he make each side so that the perimeter of the garden is as small as possible?



• Using the grid below (consider each square side on the grid = 1 meter), draw possible rectangles that have an area of 12 square units, then find the perimeter of each rectangle.



Perimeter =
$$1 + 12 + 1 + 12$$

= 26 length units

Perimeter =
$$2 + 6 + 2 + 6$$

= 16 length units

Perimeter =
$$3 + 4 + 3 + 4$$

= 14 length units

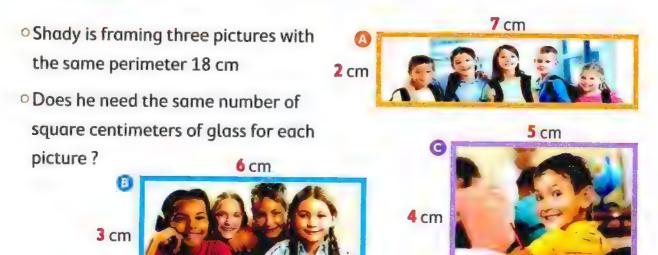
- \circ Order the perimeters : 26 > 16 > 14 14 meters is the smallest perimeter.
- So, to have a garden with the smallest perimeter possible Amgad should make a rectangle with sides 3 m, 4 m long.

When you make different rectangles with the same area, the perimeter does not stay the same.

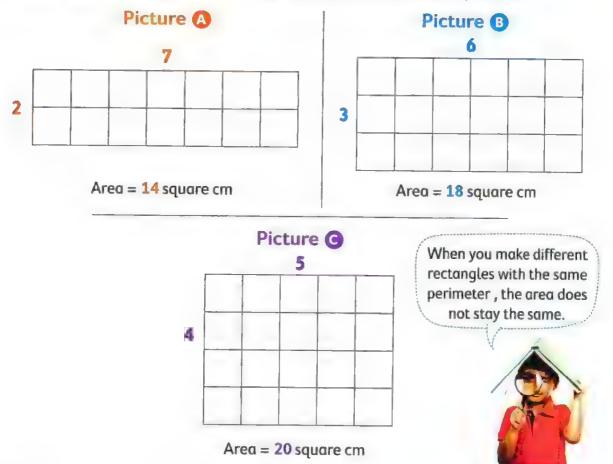




Learn 2 Different areas for the same perimeter



• To find how much glass he needs , find the area of each picture.

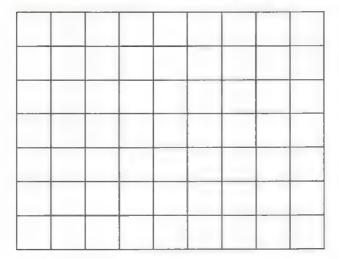


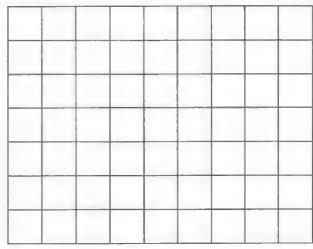
O So, Shady needs different number of square centimeters of glass.

Notes for parents



1. Using the grid below, draw two different rectangles have an area of 16 square units. Then find the perimeter of each rectangle.

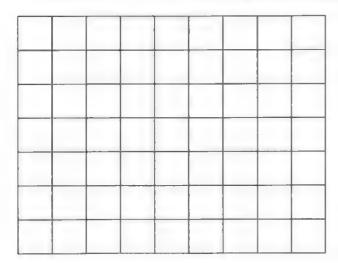


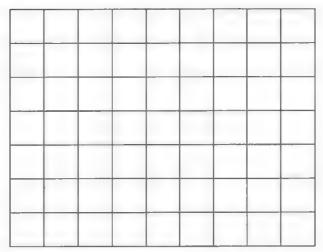


Perimeter = _____

Perimeter = _____

2. Using the grid below, draw two different rectangles have a perimeter of 16 units. Then find the area of each rectangle.





Area = _____

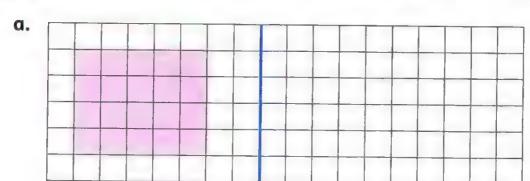
Area = ____



- Different perimeters for the same area
- Different areas for the same perimeter

From the school book

1 Find the area and the perimeter of the drawn rectangle. Then draw another rectangle with the same area but a different perimeter in each grid and calculate it.



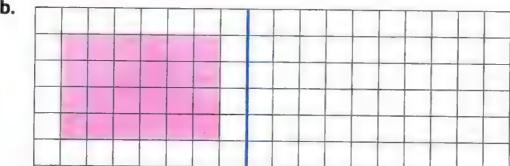
Area = _____

Areα = ____

Perimeter = ___

Perimeter = _____

b.



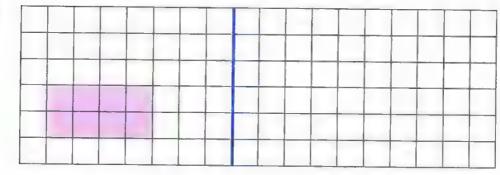
Area = _____

Area = _

Perimeter = __

Perimeter = _____

C.



Area = ____

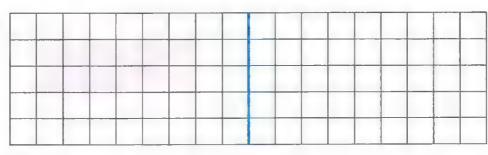
Area = _____

Perimeter = _____

Perimeter = ____

Find the area and the perimeter of the drawn rectangle. Then draw another rectangle with the same perimeter but a different area in each grid and calculate it.

a.

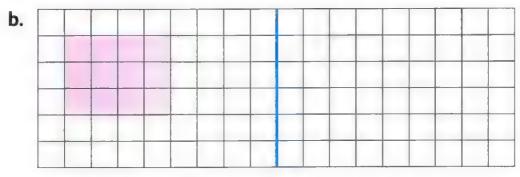


Area = _____

Area = _____

Perimeter = _____

Perimeter =



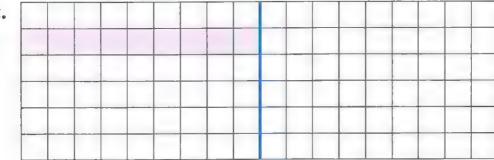
Area = _____

Area = _____

Perimeter = _____

Perimeter = _____

c.



Area = _____

Area = _____

Perimeter = _____

Perimeter = _____

Use your geometric tools to draw two different rectangles with an area of 6 square centimeters. Then find the perimeter of each one and compare the two perimeters.



Side lengths are _	3
Perimeter =	centimeters

Use your geometric tools to draw different rectangles with a perimeter of 20 centimeters. Then find the area of each one and compare the two areas.



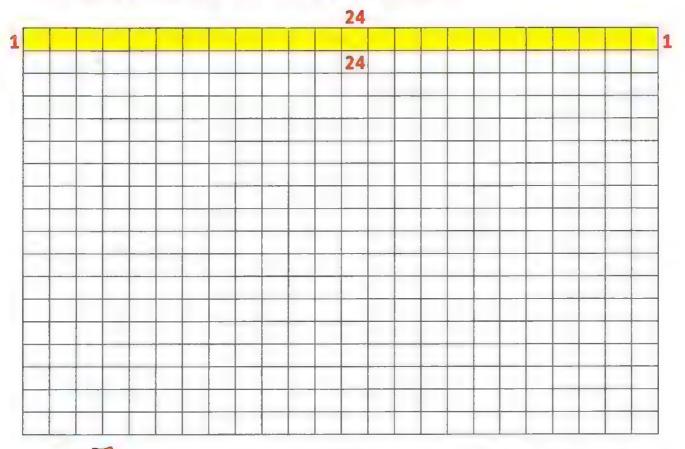
Side	lengths	are	 9	

Area = _____ square cm

Side lengths are _____, ____

Area = _____ square cm

5 Draw 4 different rectangles with an area 24 square units. Then complete the table below. The first one is done for you.



	Width (length units)	Length (length units)	Area (square units)	Perimeter (length units)
Rectangle 1	-1-	-24	24	-50-
Rectangle 2	·			
Rectangle 3				
Rectangle 4				

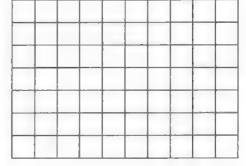
a smiley

face

Challenge (C)

6 Mariam made a frame of a picture with a perimeter of 18 cm and an area of 20 square cm. What are the lengths of the sides? «Draw a figure to show your answer» place

The side lengths are: and_



Applications on perimeter and area



Yara wants to put a lace border around her picture of dimensions 3 cm and 5 cm

How long of lace border does she need?

 Determine whether you would find perimeter or area.

Find the perimeter.

Write a number sentence to solve.

Perimeter =
$$5 + 3 + 5 + 3 = 16$$
 cm

So, Yara needs 16 cm of lace border.



I can use different ways to find the perimeter.



Wael's family tiled the floor in their front hall of dimensions 6 m and 4 m

They used square tiles that measure 1 m on each side.

How many tiles did they use?

 Determine whether you would find perimeter or area.

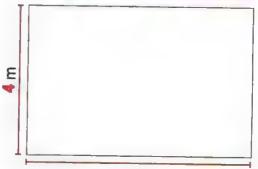
Find the area.

• Write a number sentence to solve.

Area =
$$6 \times 4 = 24$$
 square meters

So, they used **24 square meters** of tiles.





I can use different ways to find the area.



Notes for parents

Help your child find area and perimeter of carpet in his/her room.

Example (1)

Hossam is painting one wall in his bedroom.

The wall measures 7 m long and 3 m wide.

What is the area of the wall?





The area of the wall = $7 \times 3 = 21$ square meters



Example (2)



A farmer wants to buy fencing to go around his garden.

The garden is 27 m long by 13 m wide.

How much fencing will be need?

Solution 🗸



* You would find the perimeter.

The perimeter = 27 + 13 + 27 + 13 = 80 m



Check (

Solve each of the following.

a. Mona built a backyard pen for her cat.

The length of the pen was 2 meters and the width was 1 meter.

What is the area of the pen?

b. Yahia wants to make a frame of a picture with 18 cm length and 12 cm width.

What is the length of the frame?



Applications on perimeter and area

From the school bool

	nd solve each of the following story problems. You c e for help.	an draw
a. Mina l	built a backyard pen for his puppy. ength of the pen was 3 meters and the width was 2 meters. t is the area of the pen?	
He wa and its	nrouk is building a patio out of square tiles. Ints the length of the patio to be 7 tiles across is width to be 6 tiles from the same type. Imany tiles will he use in all to build the patio?	
	k had a length of 20 cm and a width of 12 cm is the perimeter of the book?	
If the g	farmer is building a fence around his garden. garden is 8 meters long and 3 meters wide. nuch fencing does he need to buy ?	
	rug is 3 meters long and 2 meters wide. is the area of the rug?	

What is the area of the p	arty banner ?	
g. Shaimaa is sewing a boblanket. The length of the and the width is 45 centime. How long will the border	blanket is 45 centimeters eters.	
The wall measures 6 m lor What is the area of the w	ng and 3 m wide.	
• A square with side length 6 9 cm and width 4 cm. State		a rectangle with lengt

jogging around their school playgrounds. Who jogged longer?





Explain your answer.

Lia Palinin

Multiplying by multiples of 10



Learn Multiplying by multiples of 10

How to find the product of 3×40 .

It is easy to multiply whole numbers by multiples of 10 using the following strategies.

Notice that $3 \times 4 = 12$ is a multiplication fact





Pirst strate

Draw place value blocks which represent 3 groups of 40







3 groups of 40

 $3 \times 4 \text{ tens} = 120$

 $3 \times 40 = 120$

Math tip

You can count by 10s to find the product.



Second strutegy

Break apart the multiples of 10 as two factors (the number x 10)

then

$$40 = 4 \times 10$$

So, $3 \times 40 = (3 \times 4) \times 10$

$$= 12 \times 10 = 120$$

Math tip

You can multiply

 $3 \times 4 = 12$

and put the zero at the end "120"





Example

Complete.

c.
$$3 \times 90 =$$

d.
$$20 + 20 + 20 =$$
 $\times 20 =$

Solution 🗸



$$a. 2 \times 4 \text{ tens} = 80$$

b.
$$4 \times 70 = (4 \times 7) \times 10 = 28 \times 10 = 280$$

c.
$$3 \times 90 = \frac{270}{1}$$

d.
$$20 + 20 + 20 = 3 \times 20 = 60$$

$$e. 8 \times 30 = 240$$





Check (

Complete.

a.
$$2 \times 70 =$$

c.
$$60 + 60 + 60 =$$
 × 60

e.
$$9 \times 50 =$$

b.
$$5 \times 2 \text{ tens} = _____$$

d.
$$80 \times 5 =$$





Multiplying by multiples of 10

From the school book

1 Complete the following as the example. You may use place value blocks to help.

Example:

$$3 \times 2 \text{ tens} = 6 \text{ tens}$$

$$3 \times 20 = 60$$

a.
$$4 \times 3$$
 tens = tens

c.
$$3 \times 6$$
 tens = tens

d.
$$4 \times 7$$
 tens = tens

			and part of the second		
	- Van-			······································	

Complete the following. Solve the problems as the example.

Example:

$$2 \times 40$$

$$=(2 \times 4) \times 10 = 8 \times 10 = 80$$

How can you use 2 x 4 to help you find 2 x 40?



b.
$$8 \times 20$$

c.
$$7 \times 70$$

$$d.9 \times 90$$

e.
$$3 \times 60$$

$$f. 4 \times 90$$

$$\mathbf{g.6} \times 20$$

$$\mathbf{h.}\ 7\times40$$

3 Solve the following problems using any strategy.

d.
$$5 \times 20 =$$

f.
$$3 \times 70 =$$

g.
$$\bigcirc$$
 6 × 90 = ____

j.
$$80 \times 9 =$$

4 Choose the correct answer.

- **a.** 7×3 tens = _____
- **b.** $5 \times 4 \text{ tens} = (5 \times ___) \times 10$
- **c.** 3 groups of 50 = _____
- **d.** $70 \times 1 =$ _____ tens.
- **e.** $90 \times 0 =$
- **f.** $40 \times 8 =$
- **g.** $(3 \times 4) \times 10 = 3 \times$
- **h.** $4 \times 60 = 3 \times$

- (73 or 21 or 210 or 730)
 - (5 or 4 or 20 or 200)
- (350 or 15 or 1,500 or 150)
 - (7 or 70 or 700 or 701)
 - (0 or 9 or 90 or 900)
- (32 or 320 or 408 or 3200)
 - (14 or 140 or 120 or 40)
 - (8 or 80 or 60 or 240)

5 Complete.

a.
$$3 \times 2 \times 10 =$$

c.
$$5 \times 9 \times 10 =$$

i.
$$4 \times _{----} \times 10 = 120$$

k. ____
$$\times 3 \times 10 = 90$$

m.
$$3 \times _{_{_{_{_{_{_{_{_{_{_{1}}}}}}}}}} = 150$$

o.
$$7 \times \underline{\hspace{1cm}} = 210$$

q.
$$4 \times _{}$$
 = 360

b.
$$4 \times 5 \times 10 =$$

d.
$$7 \times 8 \times 10 =$$

j.
$$2 \times _{---} \times 10 = 140$$

l. ____
$$\times$$
 6 \times 10 = 60

n. ____
$$\times$$
 40 = 80

p.
$$\times$$
 50 = 250

r. ____
$$\times$$
 60 = 180



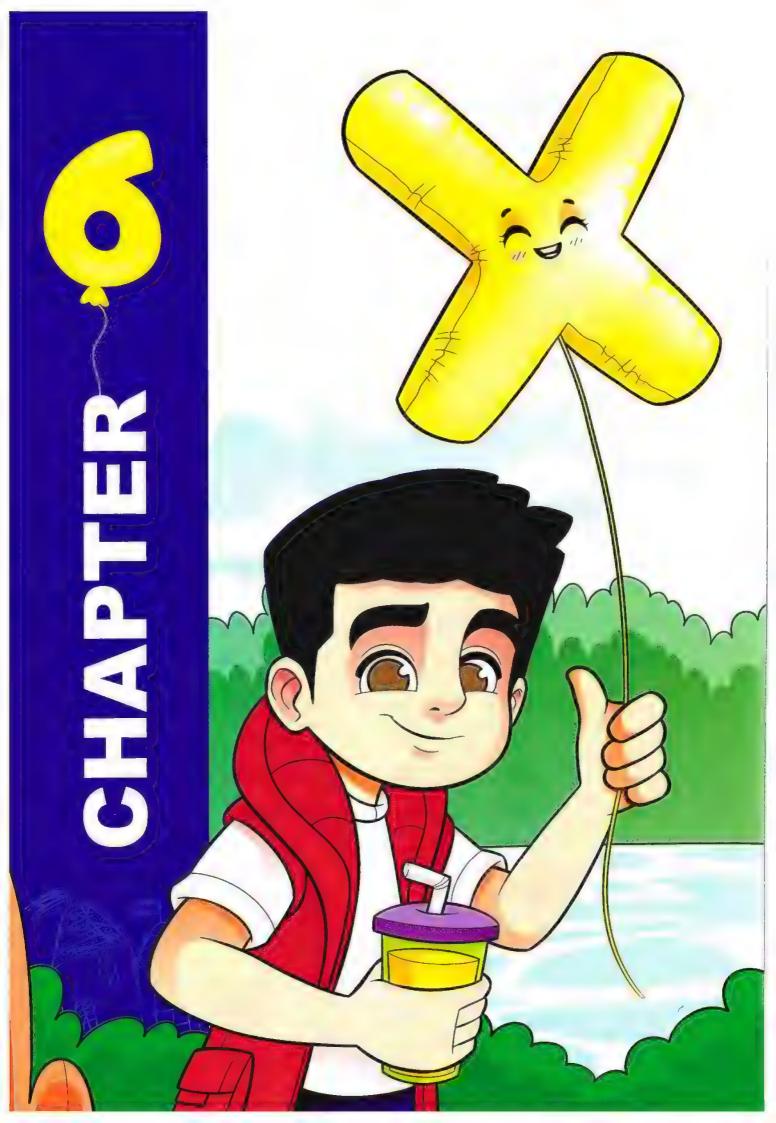
Challenge (6)

6 Solve the problem: 3 × 200

= 100

Hint





Outcomes of chapter six:

At the end of chapter six, your child will be able to:

▶ Lesson 1:

- Patterns of multiplying by multiples of 10
- Explain patterns observed when multiplying by multiples of 10.

Lesson 2:

- Strategies of multiplying by 9
- Investigate and apply patterns and strategies when multiplying by 9.
- Teach others one strategy for multiplying by 9.

▶ Lesson 3:

- Facts on multiplication and addition
- Identify patterns in multiplication and addition facts.
- Explain how patterns observed in multiplication and addition facts can be helpful when solving problems.
- Apply strategies to solve addition and multiplication facts quickly and accurately.

▶ Lesson 4:

- Comparing and ordering numbers of different forms
- Identify and describe patterns in the place value system up to the hundred thousands place.
- · Apply strategies for ordering numbers.

▶ Lesson 5 :

- Addition strategies
- Apply a variety of strategies to solve addition problems.
- Explain the importance of learning different problem-solving strategies.

Lesson 6:

- Subtraction strategies
- Explain the relationship between addition and subtraction.
- Apply strategies to subtract two numbers up to four digits.
- Use addition to check answers to subtraction problems.

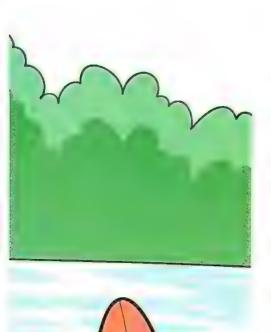
Lesson 7:

- Applications on addition and subtraction
- Apply strategies to solve addition and subtraction story problems.
- Reflect on learning to identify areas of strength and opportunities for growth.

▶ Lessons 8 & 9 :

Capacity

- Reading capacity
- Define volume as the measurement of the capacity of a container.
- Explain the relationship between milliliters and liters.
- Estimate the size of a milliliter of water.
- Identify the best unit to measure the capacity of a given container.
- Read volume measurements on a standard labeled container.
- Write what he/she has learned about capacity.



1

Patterns of multiplying by multiples of 10



• Multiplication facts and place value patterns can help you multiply.

For example:

If you know $2 \times 4 = 8$, then you can use mental math to find:

$$2 \times 40$$
 , (2×400) and $(2 \times 4,000)$

$$2 \times 40 = 80$$

$$2 \times 400 = 800$$

$$2 \times 4,000 = 8,000$$

Math tip

As the numbers of zeroes in the factor increases, the number of zeroes in the product increases.



Multiplication strategies

How to find 5 x 30

Here are some strategies to use.

These strategies can be used when multiply by hundreds and thousands.



That stratety

Use the multiplication fact and patterns to help you multiply.

Where
$$\rightarrow$$
 5 \times 3 = 15

Then
$$\longrightarrow$$
 5 x 30 = 150

Second at mag

Split the multiples of 10 as two factors " $30 = 3 \times 10$ "

$$= (5 \times 3) \times 10$$

$$= 15 \times 10 = 150$$

Third strategy

Draw place value blocks which represent 5 groups of 30



$$5 \times 3$$
 tens = 15 tens
 $5 \times 30 = 150$

Math tip

You can count by 10 s on drawings to find the product.



Chapter 6

Lesson 1

- Notes for parents
- \bullet Ask your child to find the product of 5 × 300 using multiplication fact and patterns.
- Make sure that your child recognize the strategies and ask him/her to use them to find the product of 3 × 70

Patterns of multiplying by multiples of 10

From the school book

1 Complete the following.

b.

4 × 6	
4 × 60	
4 × 600	
4 × 6,000	

d.

7 × 4	
7 × 40	
7 × 40	00
7 × 4,0	000

e.

5 x	6
5 ×	60
5 ×	600
5 x	6,000

f. 🕮

5 × 7	
5 × 70	
5 × 700	
5 × 7,000	

2 📖 Solve the problems below. Split the multiples of 10 into 10 and the other factor. For example, 40 has the factors 10 and 4.

Example: 8×40 $(8 \times 4) \times 10 = 320$

d.
$$7 \times 30 =$$

e.
$$5 \times 50 =$$

h.
$$9 \times 300 =$$

$$k. 4 \times 5,000 =$$

1.
$$6 \times 3,000 =$$

$$m.2 \times 9,000 =$$

$$n. 5 \times 8,000 =$$

Match.

5 Complete.

a.
$$3 \times _{_{_{_{_{_{_{_{_{_{_{1}}}}}}}}}} = 150$$

c.
$$= \times 500 = 4,500$$

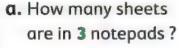
e.
$$\times 2,000 = 8,000$$

g.
$$7 \times _{----} = 1,400$$

f.
$$9 \times \underline{\hspace{1cm}} = 27,000$$

$$h. 1 \times _{----} = 4.000$$

6 Answer the following problems.





b. How many hats are in **4** bags?



c. How many stickers are in **5** packs?



d. Amir bought 3 books to read.
Each book costs 40 pounds.

How much did Amir pay?



e. A fruit seller sells every day 60 kilograms of fruit.
How many kilograms does the fruit seller sell in 4 days?



Challenge (6)

Malek bought a box of cards. In the box there were 6 smaller boxes, and in each of those boxes there were 6 packs of 10 cards. To find the total number of cards he bought, Malek wrote this equation : $6 \times 60 = 360$.

Is he correct? Explain how you know.







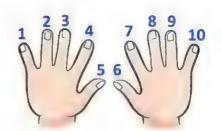
Strategies of multiplying by 9

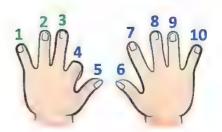


Learn 1 Finger using strategy

- O Put both hands on your desk, palms down. Mentally number your fingers from left to right.
- \circ To find 4×9 , bend down finger number 4 Fingers to the left of the bent finger show the number of tens in the product.
- Fingers to the right of the bent finger show the number of ones in the product.

 $4 \times 9 = 36$

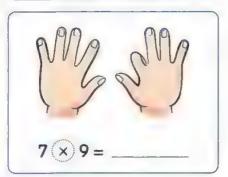


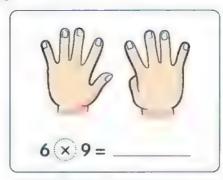


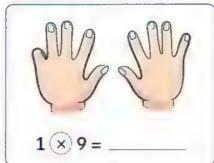
Check (

Solve the following by using figures.











Learn 2 List of equations strategy

OWhat's the pattern?

Bassem and Sarah must find 8×9 . They look for patterns enable to help.

9s facts

$$1 \times 9 = 9$$

$$2 \times 9 = 18$$

$$3 \times 9 = 27$$

$$4 \times 9 = 36$$



$$6 \times 9 = 54$$

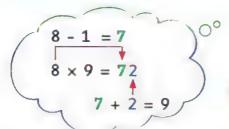
$$7 \times 9 = 63$$

$$8 \times 9 = ?$$

The ones digit goes down by 1 each time.
So the next ones digit is 2.
The tens digit goes up by 1 each time. So the next tens digit is 7.

So, $8 \times 9 = 72$

I see a different pattern.
The tens digit is 1 less
than the first factor.
The digits of the product
add up to 9







Notice that :

The sum of the tens and ones digits in each product is 9

$$9 \times 2 = 18$$
, $1 + 8 = 9$

$$9 \times 5 = 45, 4 + 5 = 9$$

$$9 \times 7 = 63, 6 + 3 = 9$$

Check O

Solve the following by using pattern.



Complete coloring skip-count forward by 9s



						()	1 1		
111	112	113	114	115	116	117	118	119	120
101	102	103	104	105	106	107	108	109	110
91	92	93	94	95	96	97	98	99	100
81	82	83	84	85	86	87	88	89	90
71	72	73	74	75	76	77	78	79	80
61	62	63	64	65	66	67	68	69	70
51	52	53	54	55	56	57	58	59	60
41	42	43	44	45	46	47	48	49	50
31	32	33	34	35	36	37	38	39	40
21	22	23	24	25	26	27	28	29	30
11	12	13	14	15	16	17	18	19	20
1	2	3	4	5	6	7	8	9	10

Notice the diagonal pattern of products of multiplying by 9: 9, 18, 27, 36, 45, 54, 63, 72, 81



Check 🔘

Complete.

45,54,____,72.

18,27,_____

63,72,

9, _____, 27, _____.

36,45,____,

27,____,54.





Find: $4 \times 9 = ?$



First

You can think of the problem as

Second

Subtract one of the 4s

4 4

Check (

1. To find: $8 \times 9 = ?$ Complete.

2. To find: $5 \times 9 = ?$ Complete.

5 × 10 = ____ — Then ____ — 5 =



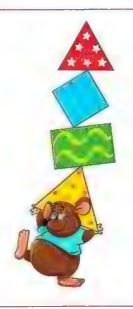


Strategies of multiplying by 9

11 Find the product using different strategies.



2 Join.



Complete in the same pattern.

4 Complete.

b.
$$9(\hat{x}) = 81$$

c. ____(
$$\hat{x}$$
) 9 = 18

d.
$$9 \times = 27$$

e.
$$(x) 9 = 9$$

f. 9
$$\hat{x}$$
 = 54

h. 9
$$\times$$
 = 63

k. ____(
$$\hat{x}$$
) 9 = 90

l. ____
$$\times 9 = 27$$

5 Find the product.



6 Choose the correct answer.

a.
$$9 \times 4$$
 6×6

$$(< or = or >)$$

b.
$$9 \times 20$$
 100 – 80

$$(< or = or >)$$

d.
$$9 \times 13 = (9 \times 10) + (9 \times ____)$$
 (2 or 3 or 4)

e.
$$400 + 50 = 9 \times$$

f.
$$6 \times 9 =$$

$$\mathbf{g.} \ 9 \times 0 = 9 - \underline{}$$





3

Facts on multiplication and addition



O Here are some addition and multiplication facts will help you to solve addition and multiplication problems.

Adding to zero

The sum of zero and any number is that number.

Example : 0 + 3 = 3

Adding to 1

The sum of 1 and any number is the number which just comes after.

Example: 1 + 3 = 4

Adding in any order

Addends can be added in any order and the sum does not change.

Example : 3 + 2 = 52 + 3 = 5

Doubling numbers

Adding the same number twice is doubling it (multiplying by 2).

Example : $3 + 3 = 2 \times 3$ 6 = 6

Multiplying by zero

The product of zero and any number is zero.

Example: $0 \times 3 = 0$

Multiplying by 1

The product of 1 and any number is that number.

Example: $1 \times 3 = 3$

Multiplying in any order

Factors can be multiplied in any order and the product does not change.

Example: $3 \times 2 = 6$ $2 \times 3 = 6$

Multiplying big numbers

Break apart big numbers into two smaller numbers.

Example: 6×7

$$= (6 \times 5) + (6 \times 2)$$

= 30 + 12

$$= 30 +$$
 $= 42$



Facts on multiplication and addition

11 Match the equal results.

Use addition or multiplication facts to find results.



3 Check the following problems if add or multiply. Find the results.

a. Amgad bought 3 toys. Each toy costs 5 pounds.
How much money did Amgad pay?

Check			
Add	Multiply		

Solve:

b. Sarah read 4 books in a month. In the next month she read 5 books.

How many books did she read in the two months?

Check
Add Multiply

Solve:

c. Youssef has 5 sets of coloring pencils. Each set has 6 pencils.

How many pencils does Youssef have in all?



Solve: _

4 Complete the missing numbers.

$$\mathbf{a.} \quad 3 \times \underline{\hspace{1cm}} = 7 \times 3$$

g.
$$+ 0 = 6$$

k.
$$7 \times 8 = (7 \times ___) + (7 \times 7)$$

l.
$$8 \times \underline{\hspace{1cm}} = (8 \times 10) + (8 \times 2)$$

f.
$$9 + 9 =$$
___ × 2

5 Choose the correct answer.

a.
$$0 \times 5 = 7 \times$$

b.
$$7 + 0 = 7 \times$$

c.
$$9 \times 5 = (9 \times 3) + (9 \times ____)$$

d.
$$3 \times 2 = 3 +$$

e.
$$5 + 5 =$$
 × 2

f.
$$1 + 5 = 6 \times$$

g.
$$5 \times 2 = 10 +$$

h.
$$3 \times 4 = 0 + _____$$

i.
$$7 \times 0 = 7 -$$

k.
$$1 \times 10 = 1 +$$

Challenge



6 Put x or +.







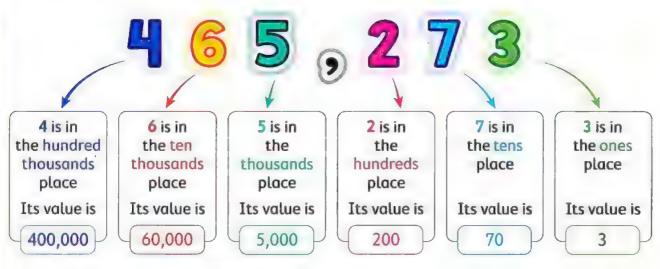
Comparing and ordering numbers of different forms

Remember 1 The value and the place value

• The value of each digit in any number depends on its place in this number.

Example:

Notice the value and place value of each digit in the number 465,273



O Different forms of writing a number:

- Standard form: 465,273

- Expanded form: 400,000 + 60,000 + 5,000 + 200 + 70 + 3

- Word form : Four hundred sixty-five thousand, two hundred seventy-three.

Check (

Complete the table.

Number	Place value of circled digit	Value of circled digit
35,276	,	
179,065		
2,351		
42,678		
203,491		







· How do you compare big numbers?

Compare 471,678 and 89,243

o 471,678 has more digits than 89,243

So, 471,678 is greater than 89,243

Compare 346,257 and 348,940

o 346,257 and 348,940 have the same number of digits, so:

First : Compare the hundred thousands digits	Second : Compare he ten thousands digits	Third : Compare the thousands digits
3 4 6, 2 5 7	3 4 6, 2 5 7	3 4 6, 2 5 7
3 4 8, 9 4 0	3 4 8, 9 4 0	348,940
The digits are the same	The digits are the same	6 < 8
So, 346,257 smaller than 348,940	346,257 < 3	48,940

Ordering numbers

Ascending order is ordering numbers from the smallest to the greatest.

For example:

95,631, 154,376, 484,688 and 841,550 are arranged in an asending order.

• Descending order is ordering numbers from the greatest to the smallest.

For example:

703,544, 614,580, 609,214 and 351,677 are arranged in a desending order.

Check 🔘

1.	Compare,	write	">	, =	or	<".
----	----------	-------	----	-----	----	-----

a. 99,564

213,456

b. 561,374

552,987

c. 800,753

708,079

d. 267,314

345,678

2. Arrange the following numbers in an ascending order.

745,319

953,442

467,890

754,319

The order is:

Ask your child to tell you two numbers and compare between them.

• Help your child arrange big numbers ascendingly and descendingly.



Comparing and ordering numbers of different forms

From the school book

	(in expanded f
twenty-one thousand , n	ine hundred thirty-one in standard
e digit 6 in the number 26,0	033 is and its place value is
000 + 40 + 300 + 2 =	
thousands + ones	hundreds +tens
e of the digit 5 in the num	ber 351,260 is
e of the digit 1 in the num	nber 127,536 is and its
rect answer.	
ne digit 3 in the number 43	3,782 is
○ 300,000	○ 3,000
0 + 5 + 20 + 700 =	
O 106,725	
e of the digit 8 in the num	iber 582,014 is
○ Ten thous	ands O Hundred thousands
hirty-one thousand, sever	nty-four in standard form is
O 53,174	O 531,074
74,316	74,005
	e digit 6 in the number 26,0 1000 + 40 + 300 + 2 = thousands + ones of the digit 5 in the number of the digit 1 in the number 4. 1000,000 1000,725 of the digit 8 in the number 4. Ten thouse of the digit 8 in the number 4. 1000,725 of the digit 8 in the number 4. 1000,725 of the digit 8 in the number 4. 1000,725 of the digit 8 in the number 4. 1000,725

a. 30,000 = thousands	b. 200 hun	dreds = th	ousands.
c. 4,000 = thousands	d	_ tens = 600	
e. = 200 thousands	f. 1 hundre	ed thousand =	ten thousand
Put > , < or =.			
a. 7 thousands 700 thou	usands	b. 79,284	79,282
c. 14,120 14,210		d. 120,000	1,200 hundred
e. 582,006 581,006			
f. 401,603 Forty-one th	nousand , six	k hundred three	
g. 9,999 10 thousand	ds		
h. 371,502 39,813			
i. 35 + 500 + 3,000 535	+ 3,000		
j. 80,000 + 7,000 + 123	7,000 + 800	0,000 + 123	
Arrange the following number	rs in an asc	cending order.	
a. 😂 5,021 5,201	5,10	5,210	
The order is:,			_
b. 55,318 505,720	5,099	550,941	55,418
The order is:,			,

a. 3,109

499

30,199

4,099

409,009

The order is:_____,___

b. 248,672

15,368

9,725

248,671

15,378

The order is:______

Find the mistake in each of the following. Correct the mistake.



- **a.** The value of the digit 7 in the number 74,123 is 700,000
- **b.** The expanded form of the number 835,469 is 8 + 30 + 500 + 4,000 + 60,000 + 900,000
- **c.** The word form of the number 58,072 is fifty-eight thousand, seven hundred two.
- **d.** The place value of the digit 5 in the number 561,248 is ten thousands.

- **e.** 300 thousands = 3,000 tens
- **f.** 91,000 + 234 > 91,235

g. 470 < 13,407

h. 800 hundreds = 8 thousands

i. The numbers:

5,101 - 10,050 - 510,001 - 501,001 - 50,011 are arranged in an ascending order.

Challenge (C)

8 Complete the missing digits in the two numbers 324, __65 and 19__,654

Such that the two missing digits have the same value.

Addition strategies



Add 324 + 167

Here are some strategies that help you to add.

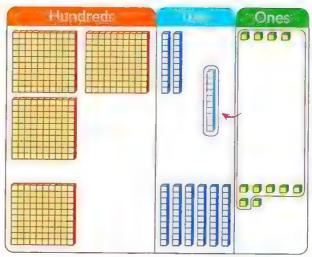
First strategy

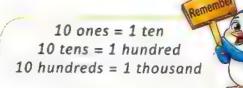
Adding using place value blocks.

- Show each number with place value blocks.
- Combine the ones4 ones + 7 ones = 11 ones = 11
- Combine the tens2 tens + 6 tens = 8 tens = 80
- Combine the hundreds

 3 hundreds + 1 hundred = 4 hundreds = 400
- Add each value to find the sum.

$$400 + 80 + 11 = 491$$





Second strategy

Decomposing numbers.

- Decomposing each number writing the values of each digit.
- Add the values of ones, tens and hundreds.
- Add the total values

$$400 + 80 + 11 = 491$$

$$324 \longrightarrow 300 + 20 + 4$$

+167 $\longrightarrow + 100 + 60 + 7$

$$400 + 80 + 11$$

Notes for parents

 Help your child recognize the two strategies and ask him/her to find the sum of 253 and 419 using strategies.

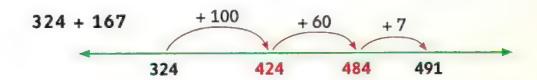
Third strategy

Number line hops.

- Decompose the smeller number which is 167.
- The first hop in the number line is adding hundreds.
- The second hop in the number line is adding tens.
- The third hop in the number line is adding ones.

$$324 + 100 = 424$$

$$484 + 7 = 491$$



Fourth strategy

Adding with regrouping

 Start by adding the ones moving to the left. This shows that we regrouped 10 ones as 1 ten

#0 \$0

1

324

+ 167

491



Use one of the previous strategies to show how to find the sum of 416 and 258.



Addition strategies

From the school book

1 Use decomposing numbers strategy to add each of the following.

Problem	Work area	The sum
a. 328 + 461	+	
b. 142 + 325	+ - +	
c. 615 + 324	+ +	
d. 483 + 201		
e. 🚨 823 + 262		
f. 3,125 + 4,519		
g. 7,210 + 2,325		

2 Use the number line to add each of the following.

Problem	Work area	The sum
a. 243 + 532	532	
b. 257 + 354	354	
c. 348 + 532	532	
d. 677 + 233		
e.		
f. 2,013 + 278		
g. 4,156 + 1,243		

3 Add.







Solve the following problems using two different strategies.

Problem	First strategy	Second strategy
a. 127 + 426		
b. 355 + 25		
c. 429 + 152		ı

5 Solve the following problems.

Hint:

Add the first and the second numbers together, then add the sum to the third number.

$$c.98 + 312 + 175$$

Hint:

Add the first and the second numbers, add the third and the fourth numbers, then add the two sums together.

$$\mathbf{f.}\ 156 + 252 + 309 + 213$$

Subtraction strategies



Subtract 318 - 145

Here are some strategies that help you to subtract.

First strategy

Place value blocks.

- Show the greater number with place value blocks.
- Subtract the ones8 ones 5 ones = 3 ones = 3
- Subtract the tens
 Since there are not enough tens to
 subtract, decompose 1 hundred as 10 tens.

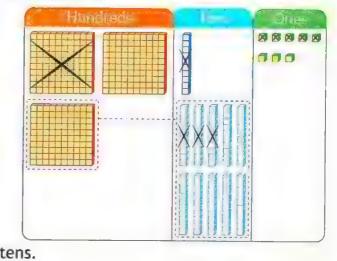
11 tens - 4 tens = 7 tens = 70



• Add the values to find the difference
$$100 + 70 + 3 = 173$$

Number line hops.

- ODecompose the smaller number
- The first hop in the number line is subtracting hundreds
- The second hop in the number line is subtracting tens.
- The third hop in the number line is subtracting ones.

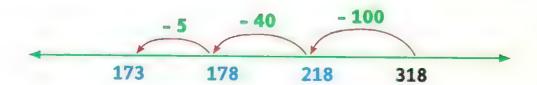


$$145 = 100 + 40 + 5$$

$$318 - 100 = 218$$

$$218 - 40 = 178$$

$$178 - 5 = 173$$



Notes for parents

Subtracting with regrouping.

Start by subtracting the ones moving to the left.

2	11
_	-

318

145

173

Check Using fact family

 Add the difference to the subtrahend If you get minuend, then your check and your answer is correct

Then: 173 + 145 = 318



318 - 145 = 173

$$318 - 173 = 145$$

$$173 + 145 = 318$$

145 + 173 = 318

So, 173 is the correct answer.

These strategies can be used in subtraction of 3-digit number and more or less digits.



Check (

Use any strategy to find the difference of 365 - 280.

Check your answer using fact families.



Subtraction strategies

From the school book

1 Use the number line to subtract each of the following.

a.	8 2 5	
	210	

		Work area
T.	7,652	
	 4,071	

2 Subtract.

a.

342

b.

C.

d.

e.

f.

g.

h.

i.

j.

k.

l.

m.

			_

n.

0.

١.		
	١.),



V. 8,067 - 2,574





3 Solve the following subtraction problems using two different strategies.

Problem	First strategy	Second strategy
a. 651 – 123		
b. 735 – 206		the column and the co
c. 127 – 35		
d. 4,219 – 1,777		

4 Solve each subtraction problem using any strategy you choose. Use fact families to check your answer.

Problem	Work area	Check your answer
a. 684 – 232		
b. 790 – 50		
c. 855 – 105		
d. 3,489 – 1,263		

Applications on addition and subtraction



Youssef has 237 blocks, Maged has 148 blocks.

How many blocks do they have all together?



Look for keyword to solve.

All together



Decide if you add or subtract.

Add

Subtract



Solve the problem.



The school library had 3,640 books for borrowing.

During one week 1,280 of them were borrowed.

The number of all blocks = 237 + 148

= 385 blocks.



- · Look for
- Decide
- Solve



Some keywords of addition:

- total
- all together
- sum
- in all
- o and
- o add
- join

- ·Look for
- Decide
- Solve



Look for keyword to solve.

How many books were left?

Left



Decide if you add or subtract.

Add





Solve the problem.

(5)14)

The left books = 3,640 - 1,280

= 2,360 books.



Some keywords of subtraction :

- left
- how many more?
- how many less?
- o take away o remain
- difference
- subtract



Notes for parents

 Ask your child to solve word problems using other strategies he/she has learned such as place value blocks, number line hops or adding/subtracting with regrouping.



Applications on addition and subtraction

From the school book

Read each story problem and decide on a strategy to solve it show your work of each problem. Some problems might have more than one step to be solved. Read carefully.

	in one year. The next year he saved 475 pounds. unt he saved ?
-	
. There are 365 days in on	ne year. If 147 days have passed since the beginnin
the year. How many day	
	- Teea
	15 14 (17) 10 12 14 15 14 15 15 15 15 15 15 15 15 15 15 15 15 15
	29 30 As
	rip to pyramids. 1,355 students from primary stage
	and secondary stages are going.
How many students are	going in all stages ?
Bassem's book has 370 pc	ages. He has already read 139 pages
	ages. He has already read 139 pages.
	ages. He has already read 139 pages. Bassem have left to read?

If each box is filled with 435 marbles.	
How many marbles were delivered in all?	Marbles
f. The library can hold 2,475 books, but 525 books 137 books are missing.	are out on loan and
How many books are there in the library right now?	
g. Sami had 6,000 L.E. to spend. He bought a new mobile	for 3,250 L.E.
g. Sami had 6,000 L.E. to spend. He bought a new mobile and a speaker for 675 L.E. How much money does have left with him?	for 3,250 L.E.
and a speaker for 675 L.E. How much money does have left with him? h. Amir's family is saving to buy a new TV. The TV cost	
and a speaker for 675 L.E. How much money does have left with him? h. Amir's family is saving to buy a new TV. The TV cost They have saved 2,410 L.E. so far.	
and a speaker for 675 L.E. How much money does have left with him? h. Amir's family is saving to buy a new TV. The TV cost	





- Capacity
- Reading capacity



- Capacity is the amount of liquid a container can hold.
- O Units of capacity are:
 - a liter (L) used to measure large amounts and
 - a milliliter (mL) used to measure

small amounts.

For example:



Vocabulary

Liquid
is that can take
the shape of its
container.



A dropper holds about 1 milliliter.

• There are 1,000 milliliters in 1 liter.

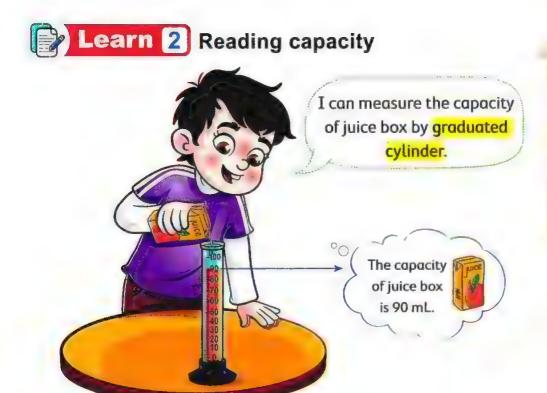
1 liter (L) = 1,000 milliliters (mL)

So, 2 L = 2,000 mL, 3 L = 3,000 mL, ...

Choose the unit you would use to measure the capacity of each. L mL L mL L mL mL mL mL mL

Notes for parents

• Let your child think about some containers at home, then determine 2 containers might hold more than 1 liter.

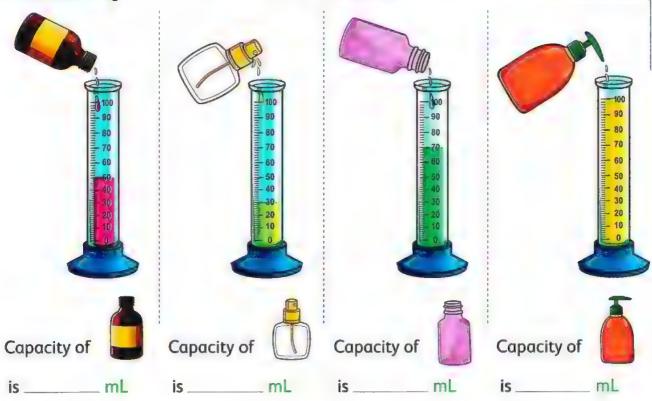


Vocabulary

Graduated cylinder is a graduated tool like ruler from 0 to 100 and the listed numbers are skip counted by 10's and it holds 100 mL



Write the capacity for each of the following.



Lessons 8 & 9

Notes for parents

254

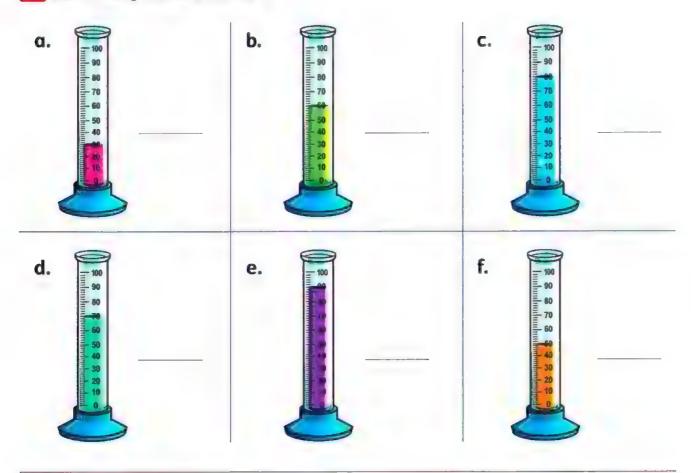
· Let your child use a graduated cylinder to measure a small milk box.



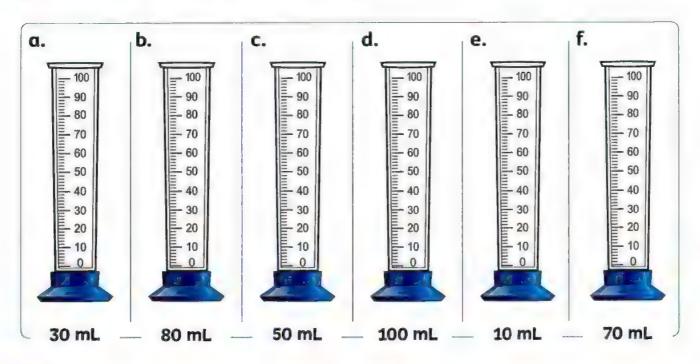
- Capacity
- Reading capacity
- 1 Choose the better estimation for each.



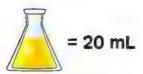
2 How many mL are there?



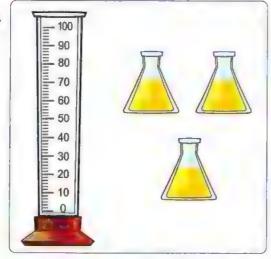
3 Color to reach the given measures.



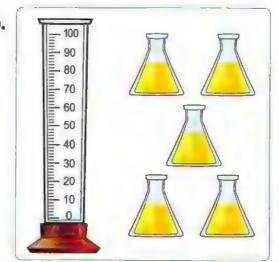
Color to reach the required measures.



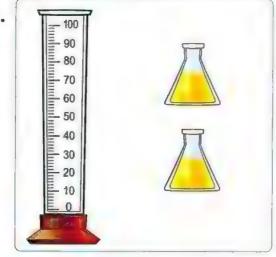
a.



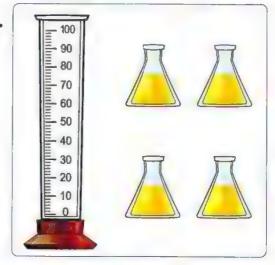
b.



C.



d.



5 Complete the following.

f.
$$37,000 \text{ mL} = ____ \text{L}$$

6 Choose the correct answer.

a. 3 L = ----- mL

(30 or 300 or 3,000)

b. 14 liters = — milliliters

(140 or 14,000 or 1,400)

c. 10 L = ----- mL

(1,000 or 100 or 10,000)

d. A perfume bottle is measured by —

(mL or L)

e. Water in a bathtub is measured by

(mL or L)

f. The graduated cylinder is a tool for measuring

(capacity or tall or weight)

g. The capacity of a soda can could be

(330 L or 330 mL)

h. 2,000 mL = — L

(200 or 2 or 20)

i. 70,000 mL = _____ L

(700 or 7 or 70)

j. The liter is a unit used to measure

(tall or temperature or capacity)

k. Milk in a bottle is measured by —

(L or mL)

(5 or 500 or 5,000)

m. 5,000 mL - 2,000 mL = ---- L

(2 or 3 or 4)

n. 2 L + 1,000 mL = _____ L

(2 or 3 or 4)

o. Petrol in a car is measured by

(mL or L)

p. Soda in a can is measured by —

(mL or L)

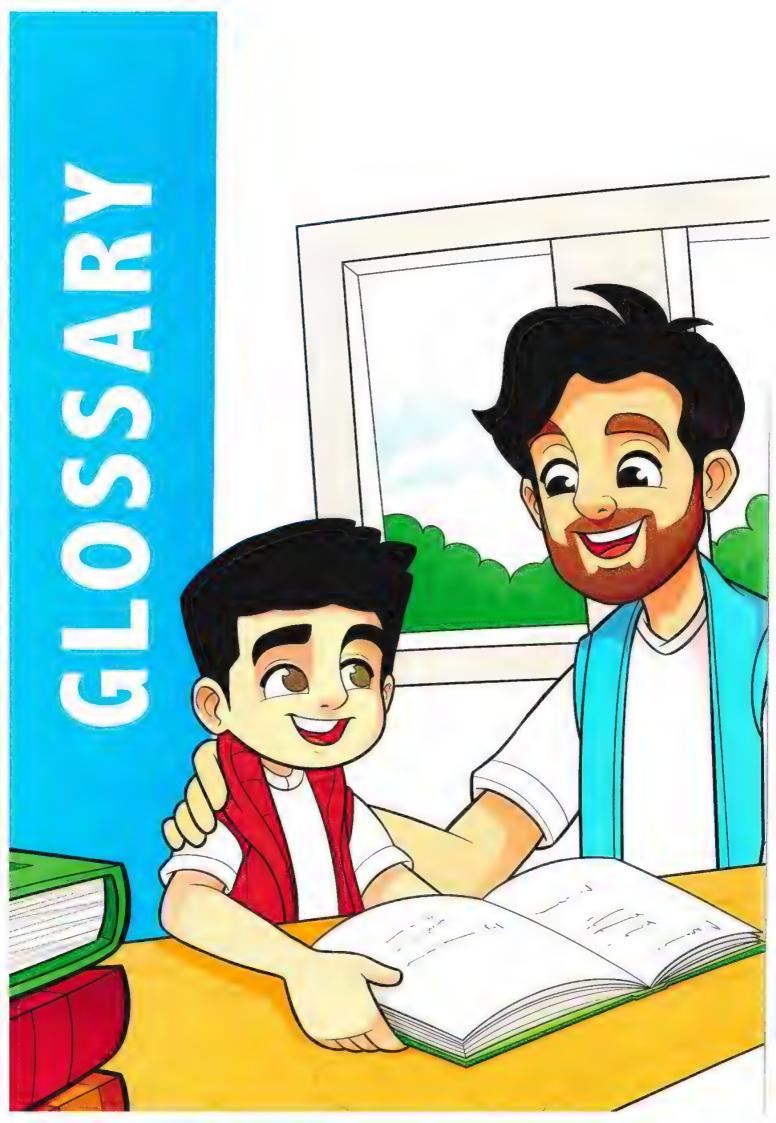
Challenge (6)



How much more or less than 1 L did he drink?







	Α
accepted	مقبول
accumulative	تراكمي
actual	فعلى
addition facts	حقائق الجمع
addition	الجمع
add	يجمع
analog clock	ساعة ذات عقارب
answer	يجيب/ إجابة
area	مساحة
arrange	يرتب
array	مصفوفة
ascending	تصاعدي
assessment	تقييم
attribute	خاصية
axis	محور
	В
bar graph	التمثيل البيانى بالأعمدة
belong	ینتمی
between	ہین
big	كبير
break apart	يقشم
	<u>C</u>
capacity	السعة
centimeter	سنتيمتر
challenge	تحدى
chart	مخطط
check	يتحقق
choose	يختار
circle	دائرة / يضع دائرة حول
clock	منبه
closed figure	شكل مغلق
color	يلوِّن / لون
column	عمود
common	مشترك
common commutative	مشترك إبدال
commutative	إبدال

complete	ىكمل
correct	صحيح
count	بعد
create	ينشبع
Credite	ينسئ
data	بيانات
decide	يقرر
decompose	يحلل
decomposing	التحليل
decrease	ينقص
descending	تنازلي
describe	يوصف
determine	تحدد
diagonal pattern	يحدد النمط القطرى
different	مختلف
digital clock	ساعة رقمية
digit	رقم
dimension	نعد
discover	بعد بكتشف
distance	يحسف
distributive	
divide	توزیع
division	يقشم القسمة
	القسمة مضاعفة
doubling draw	
araw	يرسم
elapsed time	الوقت المنقضي
element	عنصر
equal to	مساول
estimate	یقڈر
estimating	تقدير
estimation	تقدير
expanded form	الصيغة الممتدة
explain	•
extend	یفسر یمتد
extend	يفند
fact family	حقائق، باضية
fact family	حقائق رياضية زوج من العوامل
factor pair	زوج من العوامل
factor pair factor	زوج من العوامل عامل
factor pair factor fair share	زوج من العوامل عامل نصيب عادل
factor pair factor	زوج من العوامل عامل

finding	إيجاد
find	يوجد
finger	إصبع
first	أولا
frequency	التكرار
G	
greater than	أكبر من
greatest	.ر ق الأكبر
grid	بر شبكة
group	مجموعة
m	
half	نصف
happen	يحدث
hexagon	يحدث سداسي الأضلاع
hint	
hop	تنویه
horizontal	قفز
hour hand	أفقى
hour	عقرب الساعات
	ساعة
hundred thousand	مائة ألف
incorrect	خطأ
increase	يزيد
intersect	يتقاطع
J	
join	ينضم / يوصل
	يسمم / يوطن
K	
key	مفتاح
land on	يستقر
least	يـــــر الأصغر
left	باقی/شمال
length	بى رىسان طول
less than	عون أقل من
line plots	مخطط التمثيل بالنقاط مخطط التمثيل بالنقاط
linear measurement	محطط التمثيل بالتفاط قياس خطي
list	فياس خطئ فائمة
liter	
	لتر الأحادا
longest ·	الأطول
tong	طويل

M	
match	يوصل
mean	یعنی
measure	يقيس
measuring	قیاس
meter	متر
milliliter	ملليلتر
millimeter	. ر مللیمتر
minute hand	عقرب الدقائق
minute	دقيقة
missing	مفقود / ناقص
mistake	خطأ
model	نموذج
most	الأكثر
multiple	مضروب
multiplication facts	حقائق الضرب
multiplication	الضرب
multiply	يضرب
N	
next	تالى
number line	حى خط الأعداد
number pattern	نمط الأعداد
number	عدد
object	شيء
octagon	سيء ثماني الأضلاع
open figure	شکل مفتوح
order	يرتب / ترتيب
organize	ینظم
organizing	تنظيم
o gameng	مسيم
palm	كف اليد
parallelogram	حت البد متوازي الأضلاع
parallel	_
pattern	موازی نمط
pentagon	تمط خماسي الأضلاع
perimeter	_
pictograph	محيط التمثيل البياني بالصور
place value	القيمة المكانية
polygon	القيمة المكانية مضلع
previous	مصنع السابق
problem	انسابق مسألة
product	مسالة حاصل الضرب
put	
Put	يضع

0	
quadrilateral	رياعي الأضلاع
quarter past	وربع
quarter to	إلا ربع
quotient	خارج القسمة
R	
rearrange	يعيد الترتيب
record	يسجل
rectangle	مستطيل
regrouping	إعادة التجميع
relation	علاقة
repeated addition	الجمع المتكرر
required	مطلوب
result	نتيجة
review	يراجع/مراجعة
rhombus	معيّن
right	يمين
ring	يحوط
row	صف
ruler	مسطرة
rule	قاعدة
S	
same	نفس الشيء
scale	مقياس
sentence	جملة
set	مجموعة
shape	شکل
shortest	الأقصر
short	قصير
show	يعرض
side	جانب/ ضلع
similar	متشابه
situation	موقف
skip counting	العد بالقفز
small	صغير
solve	بحل
JOLVE	
sort	يصنف
	یصنف یقشم / یشطر
sort	-
sort split	يقشم/يشطر

stand for	H
standard form	يشير إلى الصبغة الرمزية
standard unit	العلامة المرجعية
statement	- 10
	عبارة مسألة كلامية
story problem	△
strategy subtraction	استراتيجية
subtract	الطرح
suitable	يطرح
	مناسب
sum	مجموع
symbol	رمز
	T
table	جدول
tally marks	علامات الإحصاء [العلامات التكرارية]
tell	يخبر
ten thousand	عشرة آلاف
thousand	ألف
tick	يضع علامة
time	الوقت
tip	تلميح
total	مجموع
trapezium	شبه المنحرف
triangle	مثلث
trick	خدعة
	U
unit	وحدة
	V
value	فيمة
venn diagram	شكل ڨن
vertex	رأس
vertical	رأسى
vertices	رؤوس
visual	بصری
vote	رأى
	Co.
-	W
way	طريقة / أسلوب
whether	إذاكان
width	عرض
word form	الصيغة الكلامية



Mathematics

By a group of automospie

STEP BY STEP REVISION

FREE PART

- Worksheets
- General Revision
- Final Assessments

Brimary PRIMARY FIRST TERM

Index



First

Worksheets



On lesson 1 - chapter 1

1 Circle the correct rule.

a. 75, 65, 55, 45, ____

-5 $\begin{bmatrix} -10 \end{bmatrix}$ $\begin{bmatrix} +5 \end{bmatrix}$ $\begin{bmatrix} +10 \end{bmatrix}$

b. 68, 84, 100, 116, ____

 - 14
 + 14
 - 16
 + 16

c. 200, 175, 150, 125, ____

2 Discover the pattern rule. Write the missing numbers.

a. 41, 44, 47, 50, _____,

Rule

b. 80, 70, 60, 50, _____,

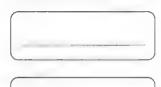
c. 115 , 120 , 125 , 130 , _____ , ____

3 Draw the pattern unit.

b. 7 8 7 8 7 8

c. X X X

d. .

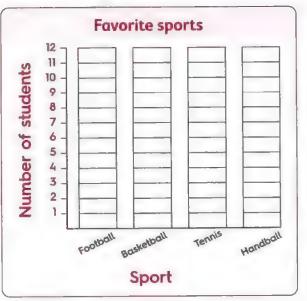


f.

Till lesson 2 - chapter 1

1 Complete the tally table, then use it to make a bar graph.

Favorite sports		
Sport	Tally	Number of students
Football	####	
Basketball	1111	
Tennis	1111	
Handball	HH 111	



Answer the questions.

- a. How many students liked basketball?
- b. Which sport got the most votes?
- c. Which sport got the fewest votes?

2 Discover the pattern rule. Write the missing numbers.

a. 20 , 22 , 24 , _____ , ___



- b. 30, 25, 20, _____,



Rule

c. 7, 14, 21, _____,



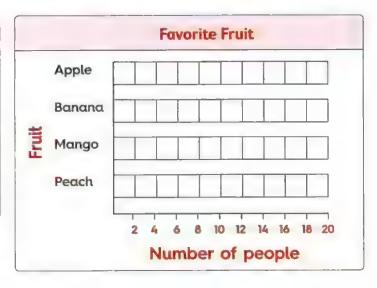
d. 3, 13, 23, _____,

e. 123, 234, 345, _____,

f. 900, 700, 500, _____,

3 Convert the same information from the tally table into a bar graph.

Fo	Favorite Fruit		
Туре	Tally		
Apple	####		
Banana	###		
Mango	####		
Peach	HH III		



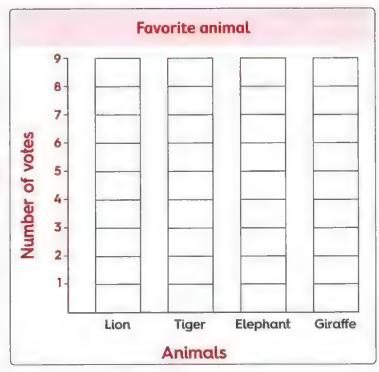
- a. How many people liked banana best?
- b. How many people liked apple and mango?

This is a survey about our favorite animal in the zoo.

Make a tally table and then use it to make a bar graph and answer the following questions.

Lion	Tiger	Elephant
Giraffe	Lion	Giraffe
Elephant	Tiger	Tiger
Giraffe	Lion	Giraffe

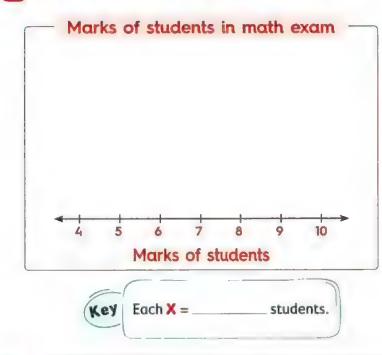
Favorite animal		
Kind	Tally	Number
Lion		-
Tiger		
Elephant		
Giraffe		



- a. Which animal is favored by the most?
- b. Which two animals have the same votes? ———,
- c. How many persons voted for elephant?
- d. How many more persons voted for lion than elephant?

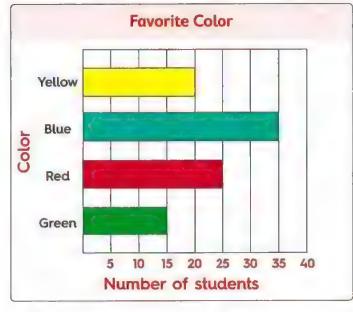
Till lesson 3 - chapter 1

1 Use the table to draw a line plot.



Marks of students	
Marks	Tally
4	
5	1111
6	1111
7	HH 1111
8	1111111111
9	##11
10	

2 Use the bar graph to complete the tally table then, answer the following questions.

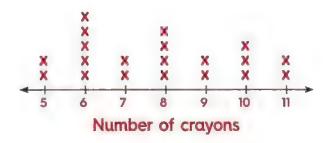


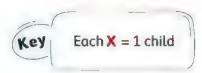
Favorite Color		
Color	Tally	
Yellow		
Blue		
Red		
Green		

- a. How many students liked red color? —
- b. Which color is liked the least? ———
- c. Which color is liked the most?
- d. How many students liked red color and green color?

Use the line plot to answer the questions.

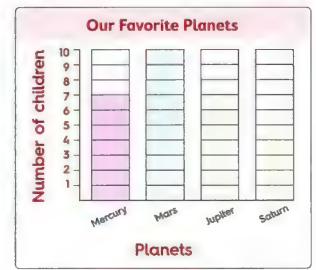
- a. How many children have 8 crayons?
- b. How many children have 6 crayons?
- c. How many children have more than 9 crayons?
- d. How many children have less than 7 crayons?





Use the bar graph to answer the questions.

- a. How many children choose Mars?
- b. Which planet did the fewest children choose? ____
- c. How many children choose Mercury?
- d. How many more votes did the Jupiter get than the Saturn?

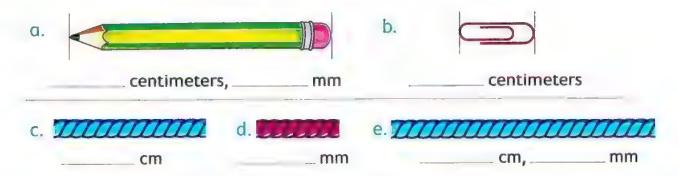


5 Find the rule. Extend the pattern.

- a. 40, 37, 34, _____
- c. 9, 19, 29, _____,
- b. 6, 12, 18, _____,
- d. 4.9.7.12._____
- e. 🛕 , 🔲 , 🔘 , 🛕 , ___

Till lessons 4 to 6 - chapter 1

Use a ruler to measure the length of each of the following.



2 Choose the correct answer.

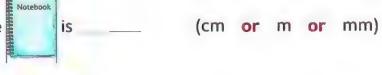
a. 30 mm = ____ cm

(3 or 10 or 30 or 300)

b. 20 cm = ____ mm

(2 or 10 or 20 or 200)

c. The suitable unit to measure



d. The suitable unit to measure

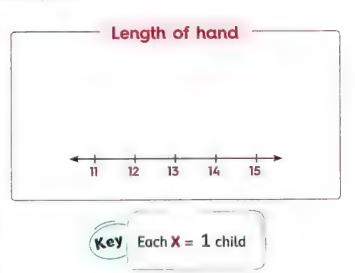


e. 9 mm 9 m

(< or = or >)

3 Complete the tally table and the line plot.

	Length of ha	nd
Length	Tally	Number
11 cm	1111	
12 cm	1111	
13 cm	##	
14 cm	1111	
15 cm		



Assessment Chapter 1

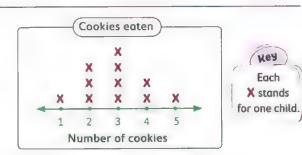


1 Complete.

- b. 250 cm = ____ m and ____ cm
- c. The length of the object = ____ cm
- d. 49, 48, 47, 46, _____, (in the same pattern)

Choose the correct answer.

a. By using the opposite line plot. How many children ate 2 cookies? (1 or 2 or 3 or 4)



- b. 18, 23, 28, 33, ____ (in the same pattern) (38 or 43 or 37 or 33)

 $c. 20 \, \text{mm} = cm$

- (20 or 2 or 200 or 22)
- d. The length of the object = = mm
- (1 or 5 or 2 or 10)

3 Put (\checkmark) to the correct statement or (X) to the incorrect statement.

a.5 m and 3 m = 8 cm

)

b. 8 m = 800 cm

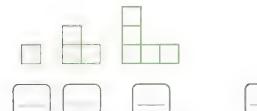
c. The length of the object (

- d. 30, 32, 34, 36, 39, 40 are all in a correct same pattern.

Arrange the following lengths in a descending order.

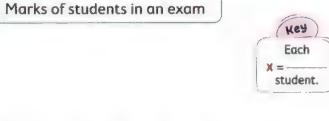
70 mm , 70 cm , 77 mm , 77 cm

Draw what might come next in the pattern. Write the number of items in each step.



- 6 Complete using (< , = or >).
 - a. 7 m 7 cm
 - c. 20 mm 20 cm

- b. 4 m 40 cm
- d. 70 mm 9 cm
- Use the table to draw a line plot.

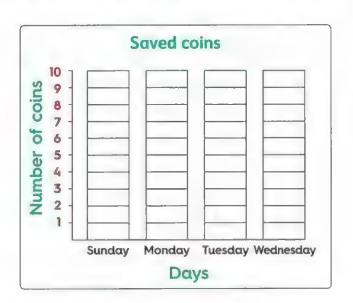


1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1						
15 16 17 18 19 20	+	1	-	-	-	-
	15	16	17	18	19	20

Marks of students in an exam				
Marks	Number of students			
15	2			
16	1			
17	3			
18	5			
19	4			
20	2			

8 Count the tallies. Write the total. Color the bar graph to show the data.

Sav	ed coins		
Day	Tally	Number	
Sunday			
Monday	#		
Tuesday	##		
Wednesday	#1		



Till lessons 1 & 2 - chapter 2

1 By using the following table complete.

Hundred thousands	Ten thousands	Thousands	Hundreds	Tens	Ones
9	2	1	4	5	8

- a. Standard form:
- b. Expanded form:
- c. Word form
- Write the following numbers in order from least to greatest.

- 3 Write the greatest and the least 4-digit number formed from 3, 9, 0 and 7.
 - a.The greatest number is ———
- b. The least number is —

4 Choose the correct answer.

a.
$$7,000 + 30 + 8 =$$
 (in standard form)

(7,380 or 7,038 or 7,083 or 7,830)

b. The value of the digit 5 in the number 3,572 is ____

(5 or 50 or 500 or 5,000)

c. Three thousand, two hundred six in standard form is _____

(3,260 or 3,206 or 3,620 or 3,226)

d. The place value of the digit 2 in the number 2,751 is _____

(Ones or Tens or Hundreds or Thousands)

e. 300 tens = ——— hundreds.

(3 or 30 or 300 or 3,000)

f. 30 mm = ---- cm

(3 or 30 or 300 or 3,000)

g. 12 cm = ----- mm

(12 or 120 or 1,200 or 12,000)

h. The tally marks | represent _____ (5 or 6 or 7 or 8)

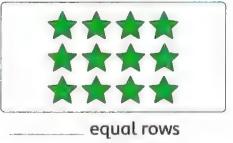
Till lessons 3 & 4 - chapter 2

1 Choose the correct answer.			
a. The place value of the digit 7 in the nur			
(Tens or Hundreds	or Thousands or Tenth	nousand	ls)
b. The value of the digit 0 in the number 1	.30,452 is		
	0 or 10 or 1,000 or	100,00	0)
c. The smallest number formed from 3 , 7			
(37,849 or	307,489 or 304,789 or	987,43	0)
d. 700,000 + 50,000 + 900 + 6 =			
	750,906 or 75,960 or		
e. 33 , 38 , 43 , (in the same pat	tern) (44 or 45 or 48	or 5	0)
2 Complete.			
a. 74,000 =tens.			
b.	(in the same pattern)		
c. Six hundred forty-two thousand, seven	hundred thirteen =		
•	(in stand	lard for	m)
d. 97,350 = 90,000 + + 300 + 50	0		
3 Compare, write "> , < or =".			
a. 79,562 81,563	b. 17,000 () 17 hundred	s	
	. 0	,	E
c. 87,521 Nine hundred thousand	d. 30,000 + 4,000 + 50	34,00)
e. 30 cm 30 mm	f. 130 tens 13 hundre	eds	
$lacktriangle$ Put (\checkmark) to the correct statement or (X) to the incorrect statem	nent.	
a. The place value of the digit 3 in the nu	mber 31, 654 is Hundred		
thousands.		()
b. The place value of the digit 7 in the nu	mber 731, 265 is 700,000	()
c. The value of the digit 5 in the number :		()
d. The value of the digit 0 in the number		()
a Nitra bounded the county aims bounded	- 000 000	,	Í

Till lesson 5 - chapter 2

1 Look at each, complete.

a.



in each row

in all

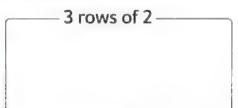
b. Harrist and the state of the st

equal rows

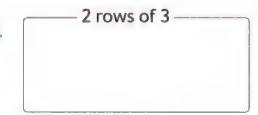
in each row

in all

2 Create an array.



b.



3 Choose the correct answer.

a. The place value of the digit 0 in the number 401,731 is

(Ones or Hundreds or Thousands or Ten thousands)

2 hundred thousands b. 198,521 (

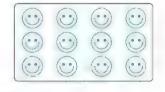
(> or < or =)

c. The greatest 6-digit number formed from 7, 8, 5, 4, 0 and 9 is _____

(405,789 or 540,789 or 987,450 or 987,540)

d. In the opposite array, the number of rows = —

(3 or 4 or 12 or 15)



e. The value of the digit 8 in the number 841,003 is

(80 or 800 or 80,000 or 800,000)

Write in expanded form.

a. 314,052 = ----

b. 72 thousands = -

c.37,561 = -

d. Fourteen thousand, thirty-one = -

Till lesson 6 - chapter 2

1 Put (\checkmark) to the correct statement or (X) to the incorrect statement.

$$0.7 + 7 + 7 = 3 \times 7$$

b. 5 groups of
$$2 = 5 \times 2$$

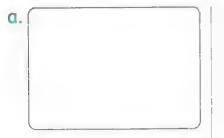
c. 4 groups of
$$9 = 4 + 4 + 4 + 4$$

$$d.9 \times 2 = 9 + 9$$
 ()

e. 6 equal groups of
$$8 = 6 + 8$$
 ()

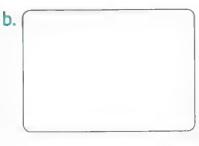
$$f. 6 \times 6 = 6 + 6 + 6 + 6$$

2 Build the array according to the following. Write the multiplication sentence.



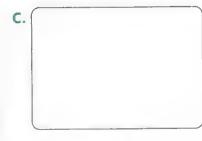
3 rows of 4

____x___=__



2 columns of 5

	×		=	
--	---	--	---	--



6 rows of 3

3 Join the place value of the digit 2 in each of the following.

- a. 725,463 •
- b. 256,007 •
- c. 154,672 •
- d. 176,291 •
- e. 452,700 •
- f. 654,321 •



Tens

Hundreds

Thousands

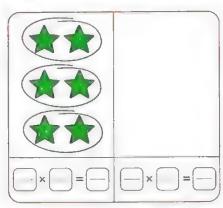
Ten thousands

Hundred thousands

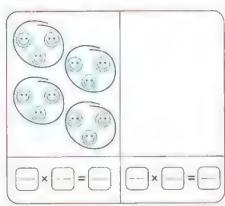
Till lesson 7 - chapter 2

1 Write the multiplication sentence for each equal groups, then draw the equal groups that shows the commutative property.

a.

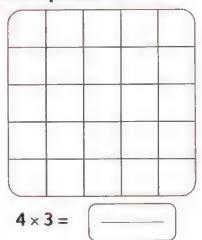


b.

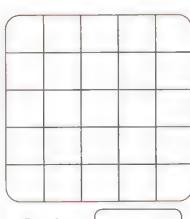


2 Draw the array on the grid according to its multiplication sentence. Write the product.

a



b.



3 Put (\checkmark) to the correct statement or (X) to the incorrect statement.

$$a. 30,000 + 5,000 + 2 + 100 = 35,102$$

()

/

(

(

,

(

(

)

Assessment Chapter 2



1 Choose the correct answer.

- a. The value of the digit 3 in 439,012 is _____ (300,000 or 30,000 or 3,000)
- b. Two hundred fifty-eight thousand, seven hundred thirty-one in standard form is ______ (731,258 or 285,731 or 258,731)
- c. 6,239 in expanded form is

(6,000 + 200 + 30 + 9 or 9,000 + 300 + 20 + 6 or 2,000 + 600 + 90 + 3)

- d. 120 thousands
- 1,200 hundreds

(> or < or =)

- e. 451,679
- 89,879

(> or < or =)

(3 or 5 or 35)

2 Match.

- a. 3+3+3+3
- b. (5 x 4
- c. 2 rows of 3
- d. 5 columns of 3

$$5 + 5 + 5 + 5$$

1 Put (\checkmark) to the correct statement or (X) to the incorrect statement.

 $G. 5 + 5 + 5 + 5 + 5 = 5 \times 5$

(

b. 8 + 4,000 + 60 + 100 = 8,461

(

c. The greatest number formed from 3,0,8 and 2 is 8,032

1

d. $5 \times 7 = 7 + 5$

(

4 Complete.

 $a.9 + 9 + 9 = 9 \times ...$

- b. ____ × 7 = 7 × 2
- c. 50 thousands and 50 = _____
- d. 3 rows of 6 = ____ × ___ = ___
- e. 2 groups of 5 = _____ + ____
- f. The value of the digit 0 in any number equals

g.			rows of
		The state of the s	=

h. (*)	
groups of	

5	a	Arrange	from	the	areatest	to	the	least.
	u.	Allange	HOIII	CITE	greatest	10	6110	teast.

100,369 , 812,926 , 99,512 , 766 , 812,437

b. Arrange from the least to the greatest.

307,040 , 7,403 , 43,007 , 304,700

6 Compare using "> , < or =".

- a. 3,467
- b. 300 thousands
- c. 132,045
- d. 548,176
- e. One hundred thousand
- f. 275 thousands and 6
- g. 25,600 tens
- h. 381,205

- 3,164
- 3,000 hundreds
- 93,245
- 548,173
- 99,999
- 275,600
- 256 thousands
- 83 thousands and 205



Accumulative Assessment



1 Complete.

- $a.3 \times 1,3 \times 2,3 \times 3,3 \times 4,$ (in the same pattern)
- b. 10 + 10 + 10 + 10 + 10 =_____ × 10
- c. 5 thousands, 6 hundreds and 31 ones = _____
- d. 15 m = ____ cm
- e. (in the same pattern)

2 Put (\checkmark) to the correct statement or (X) to the incorrect statement.

0.50,000 + 300 + 5,000 + 6 = 55,360

()

b. 5 groups of 3 = 5 + 5 + 5

c. 1 cm = 100 mm

()

()

d.50 hundreds = 5 thousands

()

e. The greatest 5-digit number is 99,990

()

3 Choose the correct answer.

a. The tally marks | mean _____

(3 or 4 or 5)

b. 3 cm = ____ mm

(3 or 30 or 300)

 $c.5 \times _{=} = 9 \times 5$

(5 or 9 or 0)

 $d. 9 \times 2 = 9 +$

- (2 or 11 or 9)
- e. 95, 85, 75, 65, _____ (in the same pattern)
- (55 or 65 or 35)

f. The length of the figure

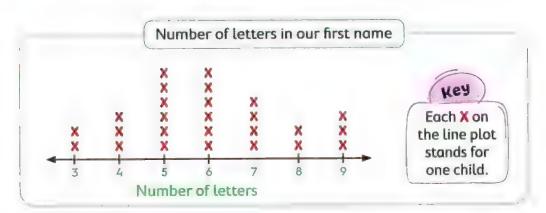
(6 or 60 or 600)

Match.

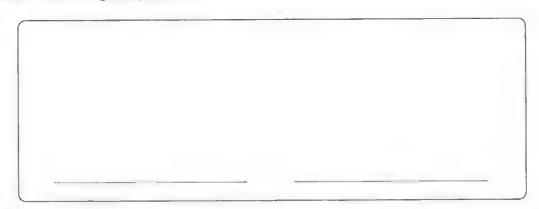
- a. 2 cm
- b. 2 m
- C. 100 cm
- d. 10 cm

- 20 mm
- 1 m
- 100 mm
- 200 cm

5 Use the line plot to answer the questions.



- a. How many children have 5 letters in their first name? ____ children.
- b. What is the smallest number of letters in a child's first name? _____letters.
- c. What is the greatest number of letters in a child's first name? _____letters.
- 6 Draw a model group. Then write an addition sentence and a multiplication sentence for 3 groups of 2.



7 a. Write the numbers in an ascending order.

7,482

54,658

954,201

12,158

b. Write the numbers in a descending order.

83,987

8,315

833,400

833,312

Till lessons 1 & 2 - chapter 3

1 Choose the correct answer.

a. 80 mm = ----- cm

(8 or 80 or 800 or 8,000)

b. 370 thousands = ——— hundreds

(37 or 370 or 3,700 or 37,000)

c. The greatest number formed from 7, 8, 0, 2 and 5 is _____

(78,520 or 87,520 or 87,250 or 87,502)

d. If a guitar has 6 strings, then there are _____ strings in 2 guitars.

(6 or 8 or 10 or 12)

2 Complete.

a. 94,562 = 90,000 + ----- + 500 + ----- + -----

b. The opposite array is _____ rows of ____



c. $6 \times 5 = 5 \times -$

d. If Ayman runs 2 hours every day, then the number of running hours in 5 days is ——— hours.

3 Read and solve. You may use counters to solve.

Sara had a bag of peanuts to share with her friends . She gave 3 friends a 4 peanuts each. How many peanuts did Sara give away?

There are 7 mangoes in a box. How many mangoes are there in 3 boxes?

A bag of balls holds 5 balls. How many balls are there in 3 bags?

Till lesson 3 - chapter 3

11 Use the chart. Find each product.

2 Choose the correct answer.

$$\alpha$$
. — × 4 = 40

d. The place value of the digit 4 in the number 124,023 is _____

(Tens or Hundreds or Thousands or Ten thousands)

3 Use the chart.

- a. Write the multiples of 2 greater than 30 and smaller than 60
- b. Write the multiples of 3 greater than 30 and smaller than 60
- c. Write three common multiples of 2 and 3 greater than 30 and smaller than 60

Till lesson 4 A - chapter 3

1 Use the chart. Find each product.

• 6 × 4	=
•6×1	.0 = -
• 1 × 3	3 =
• 7 × 5	=
•6×3	3 =
• 7 × 8	} =
8 × 0 •]=
•6×9	=
5 × 8	B =

Compare using "> , < or =".</p>

• $2 \times 10 = -$

a. 75,865 101,213

 $c.7 \times 4)3 \times 9$

 $e.7 \times 7)5 \times 8$

g. 30 mm () 3 cm

i. 7×0 \bigcirc 7 + 0

b. 32 thousands 720 tens

 $d.7 \times 0$ 9×1

 $f.5 \times 6$ 3×10

h.5+5+5+5 5×5

j.7+1 7×1

3 Put (\checkmark) to the correct statement or (X) to the incorrect statement.

a. 1 is a multiple of 7

()

 $b. 7 \times 0 = 0 \times 6$

()

c. $7 + 7 + 7 + 7 + 7 + 7 + 7 + 7 < 6 \times 7$

()

 $d.5 \times 5 < 7 \times 4$

()

e. 65 is a multiple of 5

.

f. 200 tens < 20 hundreds

,

1. 200 tells < 20 fidilateus

(

Till lesson 4 B - chapter 3

1 Use the chart. Find each product.

• 8 × 2 =
• 9 × 5 =
• 8 × 6 = —
• 10 × 2 =
• 8 × 10 = —
• 10 × 6 =
• 9 × 6 =
• 8 × 7 = ———
• 9 × 9 =

 $-8 \times 9 = -$

Multiples of 10 are _____

_	
•	6 × 4 =
•	5 × 6 =
•	6 × 6 =
•	4 × 3 =
•	7 × 10 =
•	6 × 3 =
•	4 × 4 =
•	0 × 7 =
•	8 × 8 =
	6 × 9 =

Use the chart. Write five common multiples of 5 and 10 greater than 10 and smaller than 100

• Multiples of 5 are

• Common multiples of 5 and 10 are ______, _____, _____ and _____

Till lesson 5 - chapter 3

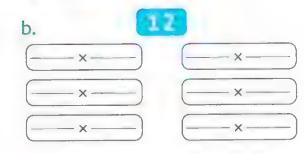
1 Complete using the given numbers. Use every number more than one time.

3	4	6
- x -	=	= 12
- × -	=	= 12
- × -		= 12
- × -	=	= 12
	- × - - × -	-× =

2 Write each factor pair and the factors of each number.

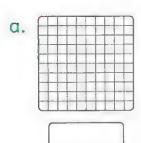


Factors are : _

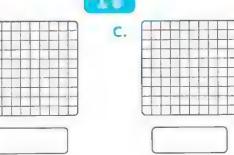


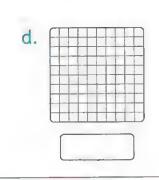
Factors are : _

Build four different arrays according to the given number.



b.



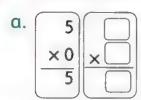


4 Join the equal results.

- a. 9×0
- b. 5×8
- 1×12

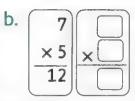
- 2×6
- 2×9
- 4×6
- 1×0
- 4×10

5 Find each product that is not correct. Write it correctly.



Correct

Not correct



Correct Not correct

6 $\times 3$ 18

Correct

Not correct

d. $\times 1$

Correct

Not correct

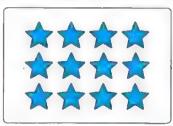
6 Find the result.

$$a.7 \times 6 = -$$

$$h.7 \times 9 = -$$

7 Look at each array. Complete.

a.

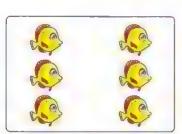


_ equal rows

_ in each row

in all

b.



equal columns

_ in each column

in all

8 Choose the correct answer.

(3 or 30 or 300 or 3,000)

b. Three thousand, five = -— (in standard form)

(3,005 or 3,500 or 3,050 or 350)

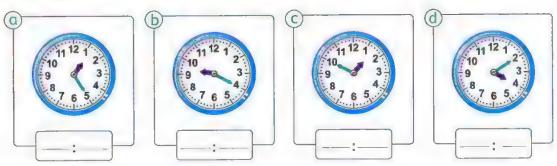
c. The place value of the digit 7 in the number 372,041 is _____

(Tens or Hundreds or Thousands or Ten thousands)

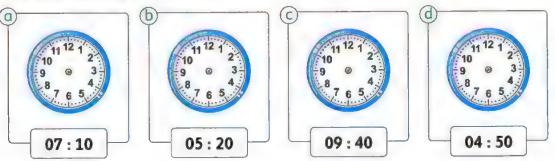
$$(5\times8$$
 or 3×10 or 3×9 or $6\times5)$

Till lessons 6 & 7 - chapter 3

1 Write the time.



2 Draw the clock hands.



3 Mina left home at 7 : 00 It took him 40 minutes to get to school.



What time did he get to school?

Complete.

a. The value of the digit 4 in the number 34,226 is _____

f. The number that the minute hand will point to when the time is 03 : 25 is _____

q. 4 equal groups of 7	= ×	=
------------------------	-----	---

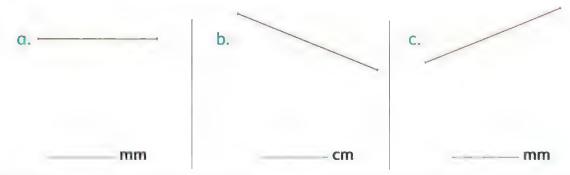
- h. The elapsed time from 05:00 to 05:50 equals _____ minutes.
- 5 Petra started playing gymnastic at 04 : 00, she played for 45 minutes. What time did she finish?

Till lessons 8 & 9 - chapter 3

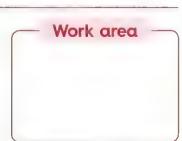
1 Draw to show your work.

- Divide 6 into 3 equal groups - in each group.
- Divide 12 into 4 equal groups in each group.

2 Measure the length of each line.



Sara has 20 apples and wants to put them in 5 plates. How many apples are there in each plate?



4 Choose the correct answer.

a. The least number formed from 7,0,4,1,2,9 is _____

b. The value of the digit 3 in the number 753,421 is —

c. The number that the minute hand will point to when the time is 12:40

Till lesson 10 - chapter 3

1 Find the result.

g.
$$54 \div 6 =$$

b.
$$35 \div 5 = ------$$

2 Complete.

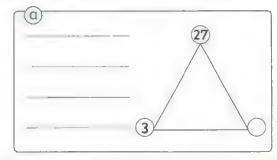
e.
$$\div 7 = 8$$

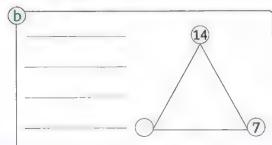
c. —
$$\times$$
 5 = 35

f. —
$$\times$$
 6 = 54

3 Find the missing factor in each triangle

then write the four number sentences that go with the fact family.





Write and draw the hands on the clock to show the time.

Bassem started playing football at 8 : 00 He played for 25 minutes.

What time did he finish?



- 5 Write in standard form each of the following.
 - a. Two thousand, seven hundred, thirty-two =
 - b. 50,000 + 800 + 9 =

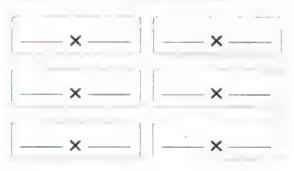
Assessment chapter 3



1 Solve.

a.	Miliborate	2	(x) 5	
	2	_	,	_)

Write each factor pair and the factors of the number 18.



• Factors are

3 Write the time.



4 Choose the correct answer.

- a. ____ is a common multiple of 2 and 3.
- c. ____ is a multiple of 5.
- d. 2 × ____ = 12
- e. The minute hand will point to number _____ when 50 minutes have passed.

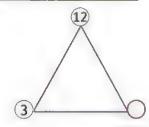
- (4 or 12 or 8 or 5)
 - (0 or 8 or 80 or 9)
- (23 or 14 or 56 or 15)
 - (10 or 8 or 14 or 6)
 - (5 or 10 or 8 or 4)

5 Ahmed bought 5 packs of ping pong balls. Each pack has 3 balls.

How many balls are there?



6 Find the missing factor in the triangle. Then write the four sentences that show the fact family.



Accumulative Assessment

Till chapter 3



11 Put (\checkmark) to the correct statement or (X) to the incorrect statement.

- a. The three numbers 4,8 and 2 can form a fact family. ()
- b. $7 + 7 + 7 + 7 + 7 + 7 + 7 = 7 \times 8$
- $C.3 \times 9 = 9 + 3$ ()
- $\mathbf{d} \cdot \mathbf{7} \div \mathbf{7} = \mathbf{7} \div \mathbf{1} \tag{}$
- e. 1 m = 100 cm ()
- f. 150 tens = 15 thousands ()

2 Choose the correct answer.

- a. The minute hand will point to the number 4 when _____ minutes have passed.
 - (5 or 10 or 15 or 20)

b. 49 is a multiple of _____

(6 or 7 or 8 or 9)

 $\mathbf{C.7 \times 6} = \underline{} \times 7$

(1 or 5 or 6 or 7)

d. 5 rows of 7 = _____

(12 or 2 or 57 or 35)

e. 1 cm = ____ mm

(1 or 10 or 100 or 1,000)

f. The length of the figure

= ____cm
(3 or 4 or 5 or 6)

3 Match.

- a. 3 × 2
- b. 25 ÷ 5
- C. 3+3+3+3
- d. 8 ÷ 8
- e. 2 ÷ 1

- 2×6
- 36 ÷ 6
- 1×5
- 2 × 1
- 7 ÷ 7

Complete.

- 0.5 + 30,000 + 400 + 7,000 + 60 =
- b. 2 groups of 9 = _____ + ____



c. The tally marks	## mean	
--------------------	------------	--

e. If
$$8 \times 9 = 72$$
, then ____ ÷ $8 = 9$

f.
$$36 \div 4 = 3 \times$$

5 Arrange the following numbers from least to greatest.

6 Write the other facts from the family $15 \div 3 = 5$

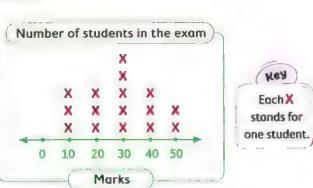


7 Ola bought 7 pens. If the price of the pens is 35 pounds. Find the price of each pen.

The price of each pen = _____ pounds.

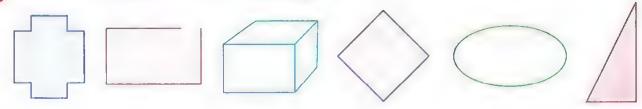
8 Use the line plot to answer the questions.

- a. How many students have 40 marks? _____ students.
- b. How many students have more than 30 marks?
- c. How many students have this exam? _____ students.



Till lesson 1 - chapter 4

Circle the shapes which are not polygons.



2 Join the equal answers.

- a. 4×9
- b. 0 × 7 •
- c. 4 x 5 •
- d. 24 ÷ 3 •
- e. 20 ÷ 2 •

 2×10

 2×4

 6×6

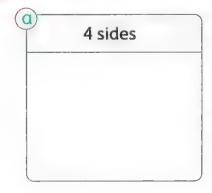
30 ÷ 3

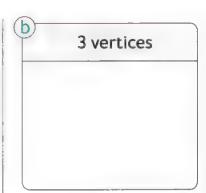
1 × 0

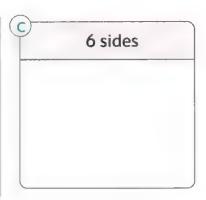
3 Complete.

- a. The polygon which has 3 sides is called ____
- b. The hexagon has _____ vertices.
- c. The quadrilateral has ______ sides.
- d.The _____ has 7 sides.
- e. The pentagon has _____ sides and ____ vertices.
- f. In any polygon, the number of equals the number of _____

Draw a polygon with.



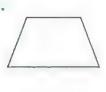




Till lesson 2 - chapter 4

1 Write the name of each quadrilateral.

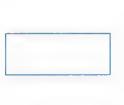
a.

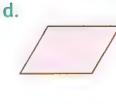


b.



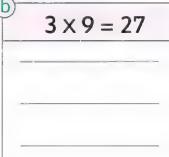
C.





- 2 Complete.
 - a. The rectangle has _____ similar vertices.
 - b. The parallelogram has _____ pairs of parallel sides.
 - c. The square has _____ equal sides.
 - d. The trapezium has exactly _____ pair of parallel sides.
 - e. The rectangle has _____ pairs of equal sides.
 - f. The heptagon has ______ sides.
- 3 Write the other facts from each family.

$$2 \times 7 = 14$$



4 Each monkey wants to eat 6 bananas.

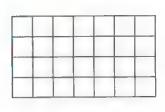
There are 30 bananas.

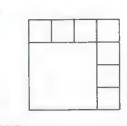
How many monkeys can be fed?

Work area

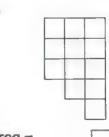
Till lessons 3 to 5 - chapter 4

1 Complete to find the area of each of the following.





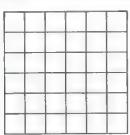
= - square units



Area =

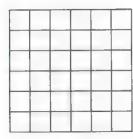
2 Use the grid to draw a rectangle represents each of the following sentences and calculate the area.

a.



 $5 \times 3 =$

b.



 $4 \times 2 =$

3 Complete.



rows of ____

b. 73,289 = ----+ + ----+ + ----+

c. The number of sides of a triangle is ———— sides.

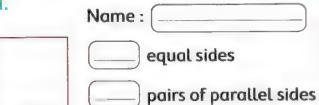
d. The least 5-digit number formed from 7, 5, 8, 9 and 1 is ——

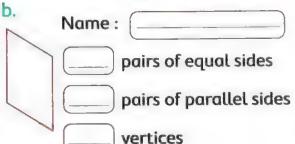
e. The rhombus has — vertices.

Name each figure and write the missing numbers.

vertices

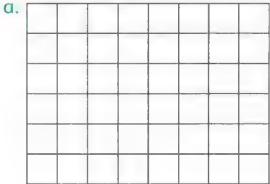
a.





Till lessons 6 & 7 - chapter 4

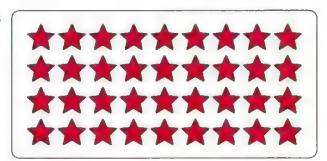
1 Split the following array using the distributive property. Write the equations that match it.





 $6 \times 8 = -$

 $6 \times 8 = (\longrightarrow \times \longrightarrow) + (\longrightarrow \times \longrightarrow)$



 $4 \times 9 = -$

 $4 \times 9 = (\longrightarrow \times \longrightarrow) + (\longrightarrow \times \longrightarrow)$

2 Use the distributive property to complete the following equations.

a.
$$7 \times 13 = (7 \times 5) + (7 \times ----)$$

e.
$$8 \times 12 = (8 \times -----) + (8 \times 7)$$

g.
$$--- \times --- = (5 \times 9) + (5 \times 6)$$

i. ——
$$\times$$
 —— = $(4 \times 7) + (4 \times 3)$

h. —
$$\times$$
 — = $(3 \times 10) + (3 \times 3)$

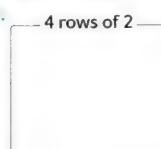
Discover the pattern rule. Write the missing numbers.

Rule

a. 14 , 17 , 20 , 23 , ______ , ____

b. 30, 28, 26, 24, _____,

Create an array.



b. 7 columns of 3

5 Complete.

a. 2 × 6 = ____ | b. 4 × 8 = ___ | c. 6 × 9 = ___ | d. 5 × 10 = ____

e. 2 × 8 = 4 × ____ f. 25 ÷ 5 = ____ g. 35 ÷ 7 = ____ h. 24 ÷ 6 = ____

i. The greatest number formed from the digits 5, 7, 4 and 2 is _____

i. The smallest 4-digits number formed from the digits 9, 5, 0 and 8 is ______

k. The pentagon is a polygon which has _____ sides.

l. The parallelogram has _____ pairs of parallel sides.

m. ## represent ___

6 Write the time.









Write the numbers in order from least to greatest.

745,216 , 390,571 , 735,429

391,897

79,999

The order is:

Assessment Chapter 4



1 Choose.

a. Which of the following is not a polygon?

	Saugre
\ /	Square

1	-		
	1	C:	1-
	- 1	V. II	rcle
	- /	-	

b. How many sides does this shape have?

	ger.			
()	5	Si	d	es



c. Which of the following does not represent a parallelogram?

Square

-)	Tra	pe	ΖİΙ	um

d. The area of the opposite figure is

4	
0	

12

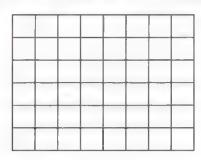
e.
$$= (4 \times 4) + (4 \times 5)$$

$$\bigcirc 4 \times 9$$

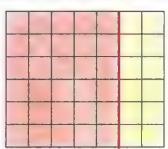
$$\bigcirc 4 \times 6$$

$$\bigcirc 4 \times 1$$

2 Calculate the area of the figure.



3 Write the distributive property equation. Calculate the total area.



4 Identify each 2D shape, and write the number of each of sides and vertices.

b.

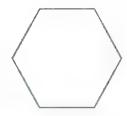
a.



Sides



Vertices



Sides

Vertices

Name: -

Name:-

Accumulative Assessment



1 Complete.

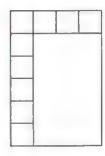
- a. 321, 432, 543, 654, _____, (in the same pattern)
- b. 50,000 + 500 + 3,000 + 30 + 8 =
- c. 2 × 5 = ____
- d. The pentagon is a polygon which has ——— vertices.
- e. 3 m = ____ cm
- $\div 3 = 5$
- $q.7 \times 13 = 7 \times 10 + 7 \times \dots$

Put (\checkmark) to the correct statement or (X) to the incorrect statement.

- a. $7 \times 15 = (7 \times 10) + (7 \times 5)$ is called the distributive property of addition. (
- b. $3 \times 7 = 7 \times 3$ is called the commutative property of multiplication. (
- c. 3 rows of $5 = 3 \times 5 = 15$
- $\mathbf{d.} \ 5 \times 1 = 5 \div 1 \tag{}$
- e. The rectangle's vertices are not similar. ()
- f. 5 + 5 + 5 = 3 + 3 + 3 + 3 + 3 ()
- g. The area of the figure equals 8 ()

3 Calculate the area of each of the following.

a.



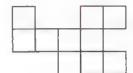
= ___ square units

b.



= ___ square units

C



Area = ____

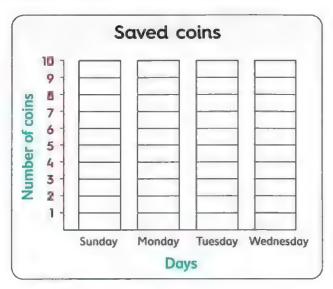
Name each figure and write the missing numbers.

a.	Name	b	Name	
	pairs of equal sides pairs of parallel sides			equal sides pair of parallel sides
	vertices			vertices

5 Draw a model groups. Then write an addition sentence and multiplication sentence for 2 groups of 3

6 Count the tallies. Write the total. Color the graph to show the data.

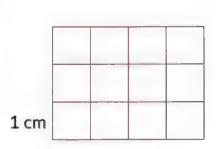
Saved coins				
Day	Tally	Number		
Sunday				
Monday	#1			
Tuesday	##			
Wednesday	##			



Till lessons 1 & 2 - chapter 5

1 Find the perimeter and the area of each of the following.

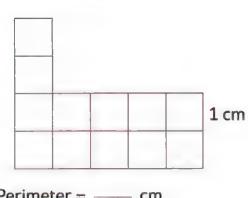
a.



Perimeter = ---- cm

Area = —— square centimeters

b.

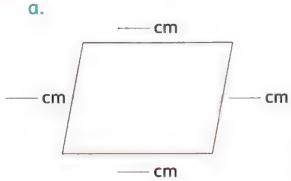


Perimeter = — cm

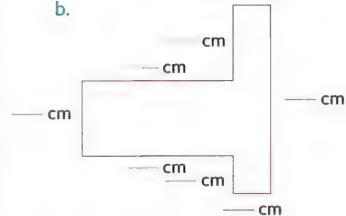
Area = square centimeters

cm

Measure each side and find the perimeter of each polygon.



Perimeter = --cm

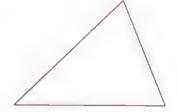


Perimeter = -

= ---- cm

3 Find the perimeter of the opposite triangle.

Perimeter = ----- + ---



Choose the correct answer.

a. Which of the following does not represent a parallelogram?

(square or trapezium or rhombus or rectangle)

b. What number will the minute hand point to when 5 minutes have passed?

(1 or 5 or 4 or 11)

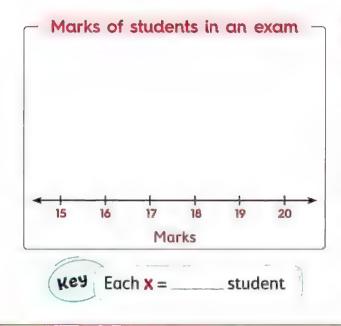
$$(2\times2 \text{ or } 2\times6 \text{ or } 3\times5 \text{ or } 12\times0)$$

f.
$$= (6 \times 4) + (6 \times 3)$$

f.
$$= (6 \times 4) + (6 \times 3)$$
 $(6 \times 5 \text{ or } 6 \times 7 \text{ or } 6 \times 9 \text{ or } 6 \times 4)$

i. Three hundred five thousand, two hundred fifty-one = _____

Use the table to draw a line plots.



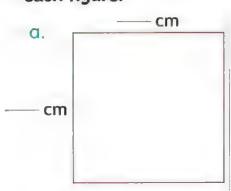
Marks of students in an exam		
Marks	Number of students	
15	2	
16	1	
17	4	
18	6	
19	4	
20	2	

6 A T.V. show ended at 6:00. It lasted for 15 minutes.

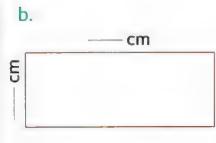
What time did the T.V. show start?

Till lessons 3 & 4 - chapter 5

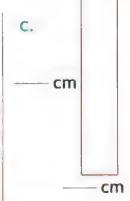
1 Use a centimeter ruler to measure the side lengths, then find the area of each figure.



Area = --- x -= --- square centimeters



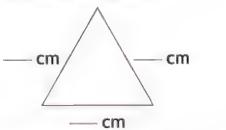
Area = --- x -= --- square centimeters



Area = - $- \times -$ = ---- square centimeters

2 Calculate the perimeter of each polygon in centimeters, then write the name of each polygon.

D.



Perimeter = —

b.



• Perimeter = ---+--+-

Name :

3 Discover the pattern rule. Write the missing numbers.

a. 20, 24, 28, 32, _____,



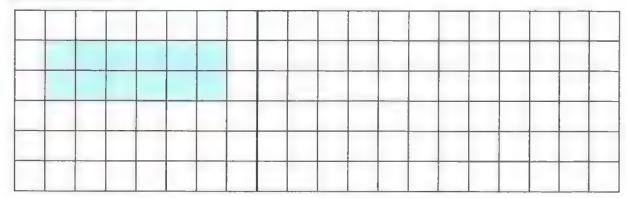
Rule

4 Sara eats 5 carrots every day.

How many carrots does she eat in a week?

Till lessons 5 & 6 - chapter 5

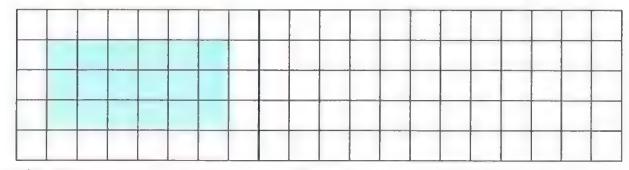
1 Find the area and the perimeter of the drawn rectangle. Then draw another rectangle with the same area but a different perimeter in the grid and calculate it.



• Area = _____

- Area = _____
- Perimeter = ____
- Perimeter = _____

2 Find the area and the perimeter of the drawn rectangle. Then draw another rectangle with the same perimeter but a different area in the grid and calculate it.



• Area = _____

- Area = ______
- Perimeter = ______
- Perimeter = _____

3 Complete.

Till lesson 7 - chapter 5

- 1 A notebook had a length of 15 cm and a width of 10 cm. What is the perimeter of the notebook?
- 2 Ahmed wants to tile his bedroom.

 If the floor is 5 meters long and 4 meters wide, how many one meter square tiles will he need?
- 3 Sameh has 21 oranges and wants to put them equally in 3 plates.

 How many oranges are there in each plate?
- 4 Find the results.

a.
$$5 \times 4 = ----$$

b.
$$3 \times 7 = ----$$

$$c.6 \times 7 = ---$$

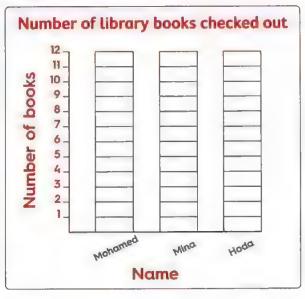
e.
$$35 \div 7 = ----$$

5 Arrange from the least to the greatest.

6 Use the tally table to complete the bar graph.

Number of library books checked out		
Name	Tally	
Mohamed	###	
Mina	##1	
Hoda	###	

- a. How many books are checked out by Mohamed?
- b. How many books are checked out by Mina and Hoda?



Till lesson 8 - chapter 5

1 Solve the following problems using any strategy.

a.
$$5 \times 60 = ----$$

b.
$$2 \times 30 = ---$$

$$c.4 \times 50 = ---$$

$$d.7 \times 20 = ---$$

$$g.50 \times 3 = ----$$

h.
$$70 \times 6 = ---$$

i.
$$40 \times 7 = ----$$

$$1.20 \times 9 = ---$$

2 Complete.

a.
$$50,000 + 3,000 + 4 =$$
 (in standard form)

b. The place value of the digit 0 in the number 320,481 is _____

c. The greatest number formed from 3,0,1,9,8 is _____

$$d. ---- \times 4 = 5 \times 8$$

e. 20, 24, 28, 32, _____ (in the same pattern)

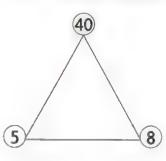
f. The area of the opposite figure =	x	=		
--------------------------------------	---	---	--	--



3 Write the fact family for the opposite numbers.







4 Put "> , = or <".

$$c.7 \times 8$$
 $) 5 \times 9$

$$e.7 \times 0$$
 9×0

$$d.4+5$$
 4×5

Assessment Chapter 5



1 Find the perimeter and the area of each of the following shapes.

a.



Perimeter = __

Area = _____ square centimeters

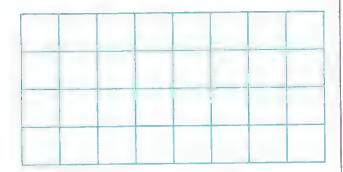
b.



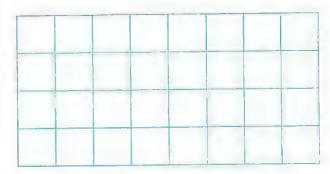
Perimeter = ____ cm

Area = _____ square centimeters

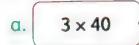
2 Draw a rectangle of perimeter 10 length units in the grid.



Draw a rectangle of area 8 square units in the grid.



Join the equal products.



 60×2

5 Nada is sewing a border on a baby blanket. The length of the blanket is 40 cm and the width is 30 cm

How long will the border be?



Accumulative Assessment

Till chapter 5



1 Complete.

- a. 30 thousands and 3 = _____
- b. (), , , , , , , , , , (in the same pattern)

7 cm

- c. $27 \div 3 =$
- d. The hexagon is a polygon which has _____ sides.
- e. The area of the shape equals
- f. The perimeter of the rectangle 3 cm.
- g. 7 × 30 = ____

2 Choose the correct answer.

a. 15 thousands 51 hundreds.

(< or = or >)

b. 6×3 tens 9×2 tens.

(< or = or >)

c. 1 m = ____ cm

- (1 or 10 or 100 or 1,000)
- d. The area of a rectangle with 5 cm long and 2 cm wide equals ______ square centimeters. (7 or 14 or 10 or 100)
- e. The value of the digit 6 in the number 26,345 is

(6 or 60 or 600 or 6,000)

3 Put (\checkmark) to the correct statement or (X) to the incorrect statement.

- a. A rectangle with 5 units wide and 10 units length has an area of 50 square units.
- ()

b. 70 + 300 + 5,000 + 10,000 = 15,370

()

c. 4 rows of 5 = 4 + 4 + 4 + 4

)

d. 49 is a multiple of 7

()

e. The two rectangles



3 cm and

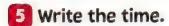


^{2 cm} have

the same area but different perimeter.

(

Sameh wants to make a wooden frame around the window of his room which is 3 m long and 1 m wide, so what length of wood does he need for the frame?



a.



It is



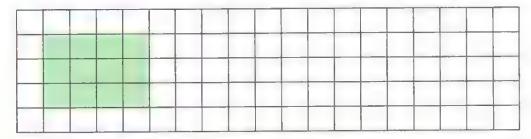
b.



It is

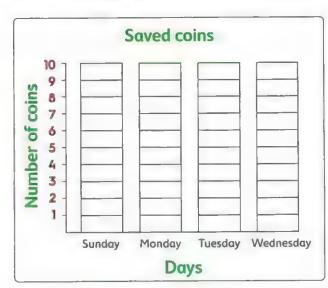


6 Draw a rectangle of the same perimeter of the drawn rectangle in the grid.



7 Count the tallies. Write the total. Color the graph to show the data.

Saved coins				
Day	Tally	Number		
Sunday				
Monday	##			
Tuesday	###			
Wednesday	##1	_		



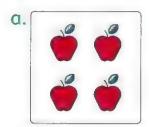
Till lesson 1 - chapter 6

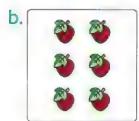
1 Find the following products.

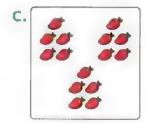
a.
$$5 \times 30 = ---$$

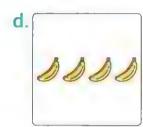
$$c.6 \times 3,000 = ----$$

2 Write a multiplication sentence for each.







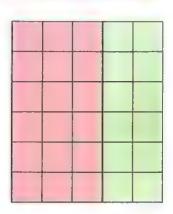


$$e. 2 + 2 + 2 + 2 = 8$$

$$f. 4 + 4 + 4 + 4 = 16$$

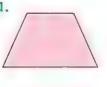
$$g.9+9+9=27$$

3 Write the distributive property equation. Calculate the total area.

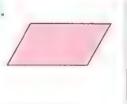


4 Write the name for each of the following.

a.



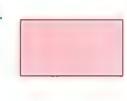
b.



C.



d.



Till lesson 2 - chapter 6

1 Complete.

$$a.9 \times - - = 18$$

$$m.7 \times 7 = ----$$

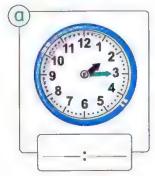
$$e. - \times 9 = 36$$

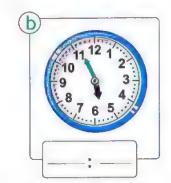
$$n. - \times 4 = 32$$

$$1. - \times 5 = 45$$

2 Arrange from the greatest to the least.

3 Write the time.







4 Circle the correct answer.

a. b. c. 200 mL 200 L 2 mL 2 L 350 mL 350 L

Mostafa is a farmer. His farm is 150 m long and 100 m wide. He wants to install a fence all around his farm.

What is the length of the fence?

Till lesson 3 - chapter 6

1 Complete.

a.
$$3 \times - - = 5 \times 3$$

$$d. 5 \times 9 = (5 \times -----) + (5 \times 6)$$

m.
$$7 \times ---- = (7 \times 2) + (7 \times 3)$$

$$k. \longrightarrow \times 5 = 5$$

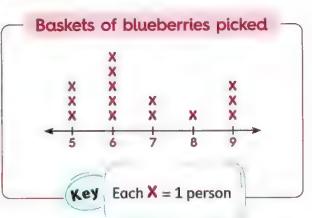
$$n.3+3 = --- \times 3$$

2 Use the baskets of blueberries picked line plot.

a. How many people picked 9 baskets of blueberries?

b. How many people picked fewer than 7 baskets of blueberries?

c. How many people picked more than 6 baskets of blueberries?



Look at each array. Complete.



___ equal rows

____ in each row

____ in all



_____ equal rows

_____ in each row

____in all

4 Arrange from the least to the greatest.

Till lesson 4 - chapter 6

Choose the correct answer.

 α . The value of the digit 5 in the number 351,861 is $_$

(500 or 5,000 or 50,000 or 500,000)

b. 94,782 > _____ (111,111 or 201,500 or 79,999 or 100,000)

 $\mathsf{c.5,000} + 700,000 + 30 =$

(573,000 or 705,030 or 750,300 or 570,300)

d. The place value of the digit 8 in the number 841,921 is ———

(Hundreds or Thousands or Ten thousands or Hundred thousands)

e. 9 × 0 = ____

 $(7+0 \text{ or } 8\times 1 \text{ or } 1\times 9 \text{ or } 0\times 10)$

f. 74,215 > _____

(74,225 or 74,316 or 74,005 or 75,000)

q. 80,000 + 7,000 + 123 7,000 + 800,000 + 123

(< or = or >)

h. 1 hundred thousand = _____ ten thousands

(1 or 10 or 100 or 1,000)

Complete.

$$a. - \times 9 = 18$$

c. —
$$\times 9 = 54$$

b. 9 × — = 63

3 Complete the table.

	Shape	Name	Number of sides	Number of vertices
a.				
b.				
c.	\triangle			

Till lesson 5 - chapter 6

1 Solve the following addition problems using two different strategies.

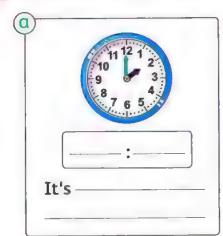
Problem	First strategy	Second strategy
a. 728 + 189		
b. 543 + 58		

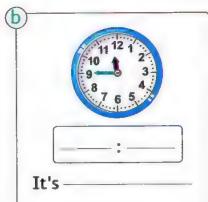
2 Solve the following problems.

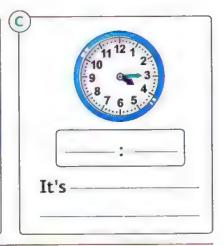
a. 217 + 98 + 148

b. (125 + 41) + (59 + 235)

3 Write the time in two ways.







1 Tick (\checkmark) to the suitable unit to measure each object.

a.



b.



Till lesson 6 - chapter 6

1 Solve the following subtraction problems using two different strategies.

Problem	First strategy	Second strategy
a. 562 – 279		
b. 380 – 74		

2	Put	">	<	or	=".
	PML	-	~	u	

- a. 702,432 Seven hundred two thousand, three hundred thirty-two
- b. $7 \times 4 \bigcirc 5 \times 3$
- d.7+0 0×0
- f. 734 + 266 734 266
- $h.9+1\bigcirc 9\times 1$
- $j.20 \times 5 \bigcirc 10 \text{ tens}$

- c. 70 thousands 700 hundreds
- **e.** $40 \div 5 \bigcirc 56 \div 8$
- $g.7 + 7 + 7 + 7 + 7 \bigcirc 7 \times 7$
- i. $6 \times 30 \bigcirc 60 \times 3$
- $k.8 \times 4 \bigcirc 8 \div 4$

3 Complete.

- a. 9 × 400 =
- c. 4 × 8 = ----
- e. 9 × 9 = ----

- b. 8 × 7,000 =
- $d. 4 \times 5,000 =$
- $f. 7 \times 8 = ---$
- g. 3, 13, 23, 33, ——, (in the same pattern)
- Judy wants to tile the kitchen floor.

 If the floor is 3 meters long and 2 meters wide.

How many one meter square tiles will she need?

Till lesson 7 - chapter 6

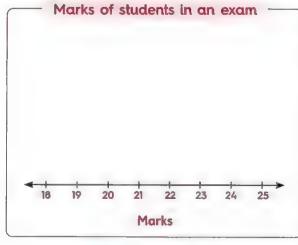
- 1 Jana had 435 trading cards. She gave away 118 cards. How many cards does she have left?
- 2 A Boeing 747 airplane has 416 seats. A Boeing 767 airplane has 245 seats. What is the greatest number of passengers the two airplanes can carry altogether?
- 3 Wael had 6,000 pounds. He bought a new mobile for 3,250 pounds and a speaker for 675 pounds. How much money does have left with him?



4 Find the results using any strategy.

$$a.721 + 182 =$$

5 Complete the table, then draw a line plot.



Marks	Tally	Number of students
18]}	_
19		
20	##	
21	##	
22	##	
23		
24		
25		

Till lessons 8 & 9 - chapter 6

1 Choose the correct answer.

a. 11 L = ____ mL

b. 7 cm = _____ mm

c. $\times 9 = 36$

 $d.7 \times 8 =$

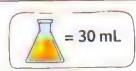
e. The capacity of a perfume bottle is measured by _____ (mL or L)

f. 3 × 700 = ____

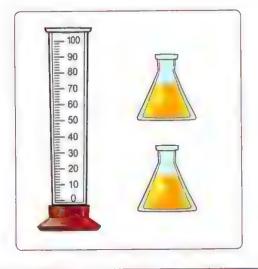
 $q_{.}$ _____ L = 7,000 mL

$$h. 600 + 7,000 + 10,000 = _____$$
 (671 or 176 or 1,760 or 17,600)

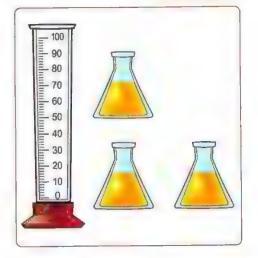
2 Color to reach the required measures.



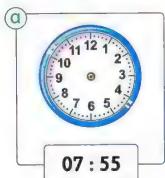
a.

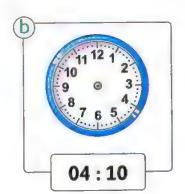


b.



3 Draw the clock hands.





Assessment Chapter 6

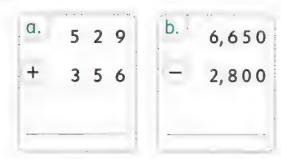


1 Choose the correct answer.

- c. $3 \times 7,000 =$ 21,000 2,100 21

- b. 20 thousands = _____ tens. 20 200 2,000 20,000

2 Find the result.



- c. 3,298 + 967 =
- d. 7,000 3,251 =

3 Color to reach the required measure.



- 4 Complete.
 - a. $9 \times 7 =$ _____
 - c. $20 \times 6 =$
 - e. 5,000 mL = ____ L

- b. $5 \times 30 = (5 \times ___) \times 10$
- d. 7 L = ____ mL
- f. $\times 9 = 36$
- 5 Sama's family saved 7,000 L.E. to buy a new TV and a speaker. If the TV costs 4,500 L.E. and the speaker costs 375 L.E.

How much money were left with Sama's family?

Accumulative Assessment

Till chapter 6



1 Put (\checkmark) to the correct statement or (X) to the incorrect statement.

a. 3 cm = 300 mm

b. The square's vertices are similar. ()

c. 12 is a multiple of 3

d. 3 rows of 4 = 3 + 3 + 3

e. 2,345 = 5 + 400 + 30 + 2,000

f. The tally marks | represent 11 (

2 Complete.

a. $\boxed{1}$ $\boxed{2}$ $\boxed{3}$, $\boxed{2}$ $\boxed{3}$ $\boxed{4}$, $\boxed{3}$ $\boxed{4}$, $\boxed{5}$, $\boxed{}$ (in the same pattern).

b. The pentagon is a polygon which has ______ vertices.

c. The area of the shape equals

d. The place value of the digit 6 in the number 3,645 is _____

e. The minute hand will point to the number 5 when ____ minutes have passed.

f. $9 \times 17 = (9 \times 10) + (9 \times ___)$

Use any strategy to find.

a. 324 + 135 = ____

2,756 + 3,857

9,000 - 4,567

What is the total amount she saved?

5 Choose the correct answer.

a. $200 \text{ cm} + 500 \text{ cm} = ____ \text{m}$

(2 or 3 or 5 or 7)

b. $7 \times 9 = 9 \times _{---}$

(7 or 8 or 5 or 2)

- **c.** 210 hundreds = _____ thousands
- (210 or 2,100 or 2,1000 or 21)
- **d.** 5×2 tens 10 tens

(< or = or >)

e. 7,000 milliliters = _____ liters

(7 or 70 or 700 or 7,000)

f. The perimeter of the rectangle

	4 cm	is	cm
6 cm			14 or 1

(4 or 6 or 10 or 20)

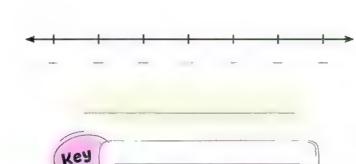
6 Match.

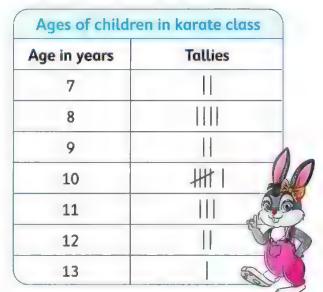
- **a.** 5,621 + 1,798
- **b.** 279 + 95
- **c.** 521 186
- **d.** 2,030 1,521

- 374
- 509
- 7,419
- 335

7 Use the table to draw a line plot.

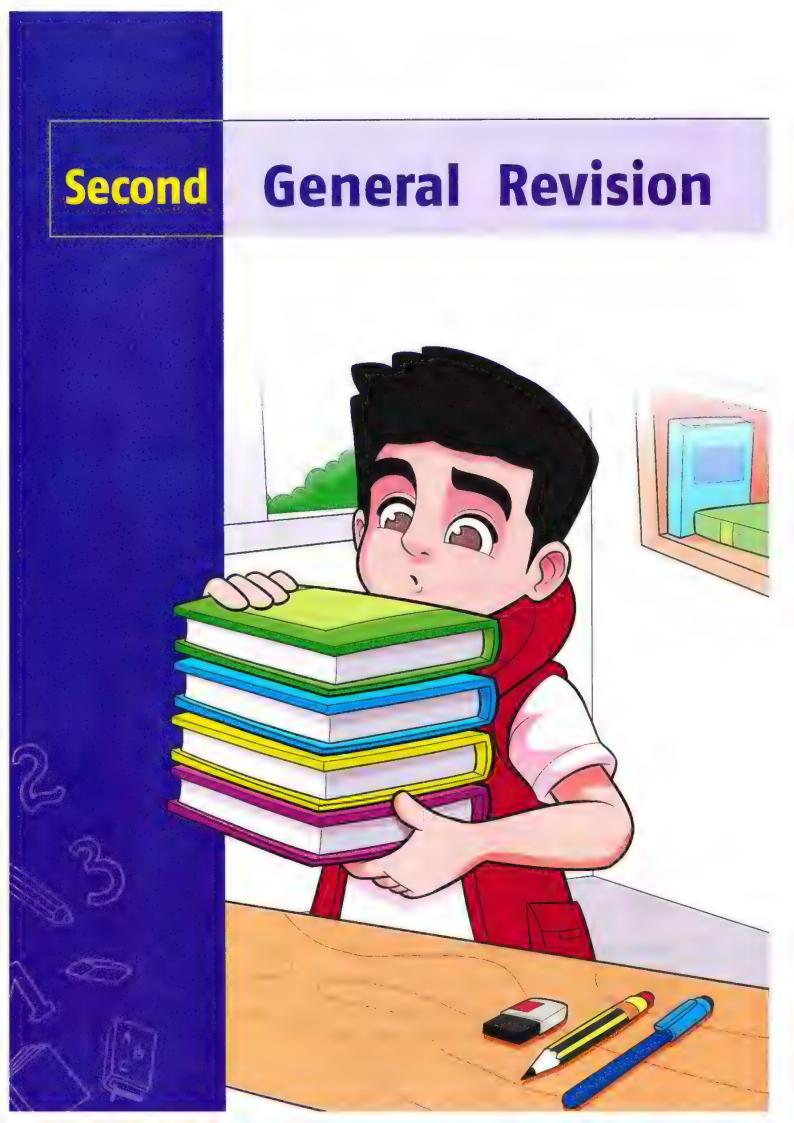
Ages of children in karate class





Use the line plot to answer the questions:

- a. How many children in the class are 11 years? _____ children
- b. What age is the greatest number of children? _____ years old
- c. How many children are in karate class in all? _____ children



General Revision On Chapter 1



11 Complete.

b.
$$3 \text{ cm} + 2 \text{ cm} = ------ \text{mm}$$

(in the same pattern)





e. 110, 113, 116, 119, _____

f. 10, 14, 18, 22, _









(in the same pattern)

(in the same pattern)

(in the same pattern)

(in the same pattern)

2 Put (\checkmark) to the correct statement or (X) to the incorrect statement.

- a. The length of your book is about 2 m.
- b. 4 cm = 14 mm.
- c. || || represent 8.
- d.5 m = 500 cm.
- e. 123, 234, 345, 456, 576. are all in a correct same pattern.
- f. 70 mm > 70 cm. g. The length of the object equals 2 cm.

3 Tick (\checkmark) to the suitable unit to measure each object.

a.



b.



mm (



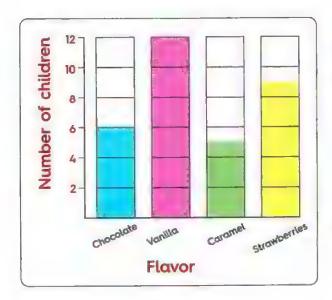
mm



d.



Use the following bar graph to complete the tally table, then answer the following questions.



Flavor	Tally	(0)
FLUVOI	Tutty	1
Chocolate		
Vanilla		
Caramel		
Strawberries		H

Choose the correct answer.

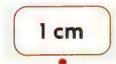
- a. There are _____ children make this survey. (20 or 30 or 32 or 50)
- b. There are _____ children prefer vanilla ice cream flavor.

c. There are 9 children prefer _____ ice cream flavor.

d. The smallest number of children prefer _____ ice cream flavor.

Match.

α.



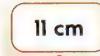
b.



C.

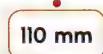


d.



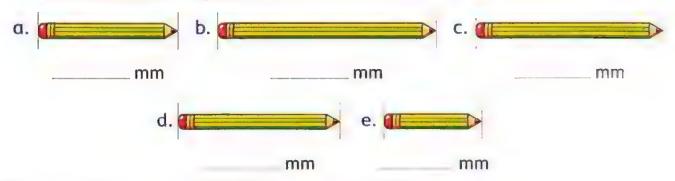
10 cm





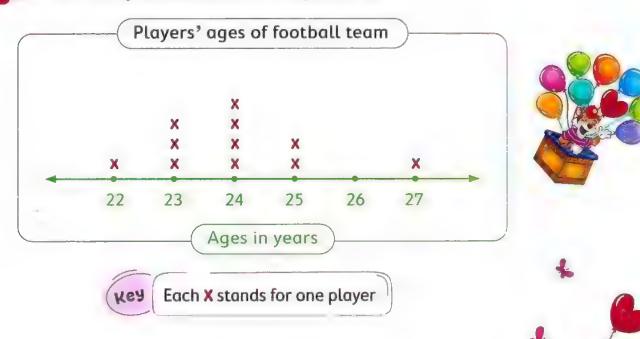


6 Measure the length of each pencil. Arrange the lengths from the shortest to the longest.



The order is:

7 Use the line plot to answer the questions.



- a. How many players are 25 years old?
- b. Which age has the greatest number of players?
- c. How many players are younger than 24 years old?
- d. How many players are in the football team?



1 This is a survey about our favorite fruit in the class.

Mango	Peach	Apple	Mango	Mango	Banana	Peach	Mango
Banana	Mango	Apple	Peach	Mango	Peach	Apple	Banana
Peach	Apple	Banana	Mango	Banana	Peach	Mango	Peach

Complete the tally table and then use it to make the bar graph.

Fa	vorite fr	uit				Favorite	fruit	
Fruit	Tally	Number		10				
Banana				9				
Peach								
Apple				Number of pupils				
Mango				ber o				
		R.W.		Z 3		\mathbb{H}		
				2				
					Banana	Peach	Apple	Mango
			-			Fruit		



General Revision on Chapter 2



1 Complete.

a.
$$500 + 40 + 1,000 + 9 =$$

2 Choose the correct answer.

b.
$$90 + 30,000 + 4,000 + 800 =$$
 (in standard form)

$$(3+3+3 \text{ or } 5+5+5 \text{ or } 15+15+15 \text{ or } 35)$$

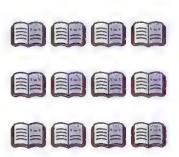
3 Put (\checkmark) to the correct statement or (X) to the incorrect statement.

a.
$$20,000 + 7,000 + 400 + 10 + 1 = 27,411$$

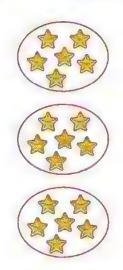
b.
$$7,068 = 7,000 + 600 + 8$$
 ()

c. The value of the circled digit in the number
$$12,349$$
 is Thousands. ()

Write the multiplication sentence for the array. Then draw the array that shows the commutative property.



5 Write the multiplication sentence for the equal groups. Then draw the equal groups that show the commutative property.



- 6 Compare using "> , = or <".
 - a. 3,467

- 3,164
- b. 300 thousands
- 3,000 hundreds

- c. 132,045
- 93,245

d. 548,176

- 548,173
- e. One hundred thousand
- 99,999
- f. 275 thousands and 6
- 275,600
- g. 25,600 tens
- 256 thousands

h. 381,205

- 83 thousands and 205
- **7** Rearrange the digits 4, 5, 0, 9 to get the greatest and the smallest number.
 - The greatest number is _____
 - The smallest number is _____

8 Complete.

a.

Array	Model	Addition sentence	Multiplication sentence
	rows of		
	rows of		

b.

Equal groups	Model	Addition sentence	Multiplication sentence
	groups of		
	groups of		

Write the numbers in order from greatest to least.

a. 83,987

8,315

833,400

833,312

The order is:______,_________

b. 69,270

499,145

9,325

9,654

10 Write the numbers in order from least to greatest.

a. 7,482

54,658

954,201

12,158

b. 805,325

67,512

9,807

28,009

General Revision

On Chapter 3



1 Find each result.











h.
$$5 \times 5$$













n.













t. 8 × 9



u.

1 × 6



2 Put "> , = or <".

$$a. 4 \times 2$$



$$4 \times 7$$



$$5 \times 6$$





$$2 + 2$$

$$2 \times 2$$

$$4 \times 0$$

$$4 + 0$$

$$10 \times 4$$

$$(\)$$

$$3 \times 7$$

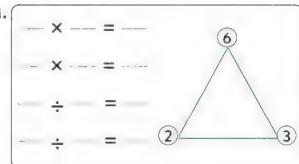
$$5 + 1$$



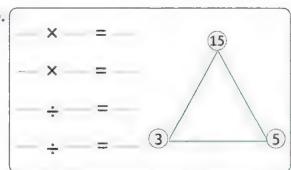
$$5 \times 1$$

3 Write the fact family for each set of numbers.

a.



b.

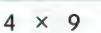


Join the equal answers.

a.

() 6	
	() 6

b.

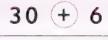


d.



e.

	100	the same	
	1 1	1	2
)	1	" }	5



3 ×



× 6





5 Write each factor pair and the factors of the number 12

12 =



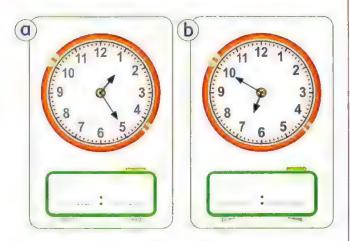




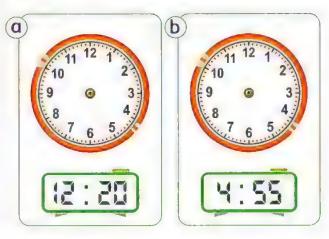




6 Write the time.



7 Draw the clock hands.



1 Draw the hands on the clock to show the time.

ATV show starts at 9 O'clock. It lasts for 55 minutes.

What time does the TV show finish?



Our Arabic lesson started at 11:00 It finished at For how long did Arabic lesson take?

Arabic lesson took _____ minutes.



10 Use the 120 chart. Circle the multiples of 2.

14

9

23

8

10

17

20

11 Use the 120 chart. Underline the common multiples of 5 and 10.

15

60

35

80

50

100

10

12 Use the counters to make an array. Solve.

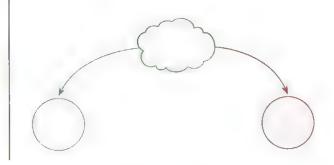


There are _____ groups of 6 in 12.



- 13 Use the 120 chart. Write the multiples of 3 up to 20.
- 14 Use the 120 chart. Write the multiples of 5 between 11 and 44.
- 15 Draw to show equal groups. Fill in the part - part - whole model. Complete.
 - · 8 crayons divided among 2 boxes.





- 16 Read and solve. You can use any strategy to solve.
 - a. Sandy planted 5 seeds in each flower pot. She had 7 pots.

How many seeds did she plant?



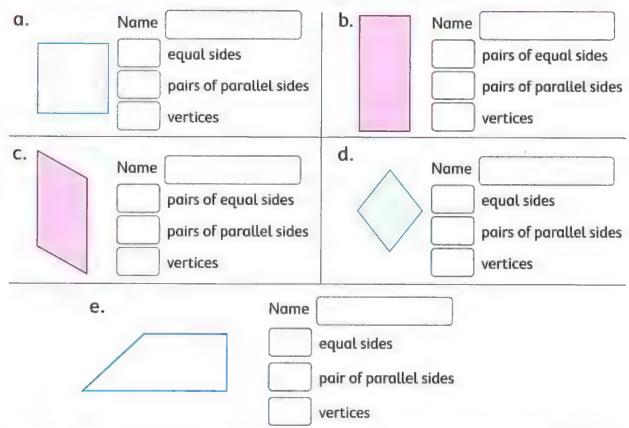
How many strings are there in 10 guitars?



General Revision On Chapter 4



1 Name each figure and write the missing numbers.

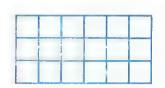


2 Calculate the area of each of the following.

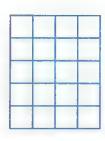
a.



Area = ---- x ----= — square units b.

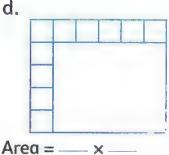


Area = ___ x ___ = — square units C.



Area = ___ x ___ = ___ square units

d.



square units

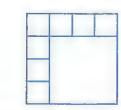
e.



Area = ___ x ___

square units

f.



Area = ___ × ___

= - square units

	ng does not represent a p (square or trapeziun				e r	ect	ana	اما
h The housean has	, ,							
b. The hexagon has		(4	or	ر	OI	O	OI	
c. The has 5 v						bas		
d The town only on home or	(triangle or pentag		-	U	or	nez	xuy	ָווּנ
a. The trapezium has ex	kactly pair of p					_		
		(1	or	2	or	3	or	4
e. The rhombus has	equal sides.	(1	or	2	or	3	or	4
. The area of the figure	equals	(6	or	7	or	8	or	9
b. $9 \times 13 = (9 \times 10) + (9 \times 10) + (5 \times 8) + (5 \times 7) = 5 \times 100$								
d. The quadrilateral is a	a polygon which has	vertic	es.					
-	a quadrilateral which ha			rs c	of ea	ıua	l sid	es.
			F			Į		
f. The polygon which ho	is 8 vertices is called	-						
Put (✓) to the correc	t statement or (X) to t	he incorre	ect !	sta	ten	nen	ıt.	
a. The circle is not a po							(
•	and rectangle are paral	lelograms.					(
•		_						
c. The area of the recta	ingle equals	14					(
							,	
d. The hexagon has 5 si	aes						(

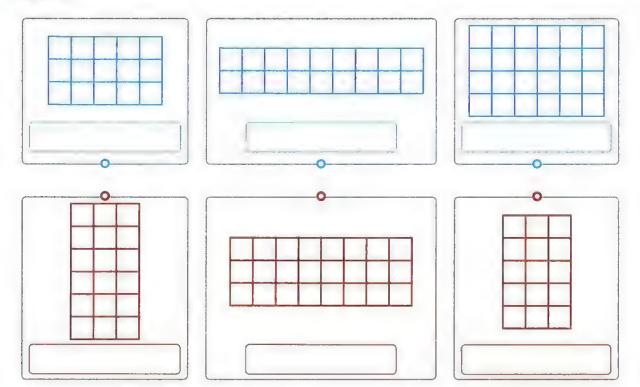
and

e. The two figures

f. $7 \times 16 = (7 \times 10) + (7 \times 6)$.

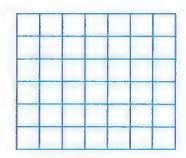
are equal in area.

6 Write the multiplication sentence. Calculate the area. Match the equal areas.

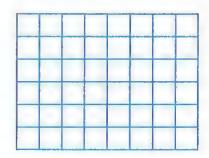


7 Split the following arrays using the distributive property. Calculate the total area of each.

a.



b.



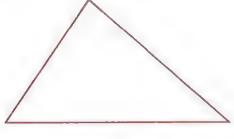
General Revision

ON Chapter 5

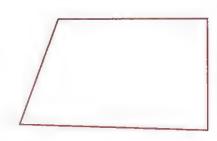


1 Using your ruler, measure each side length. Then find the perimeter of the figure.

a.

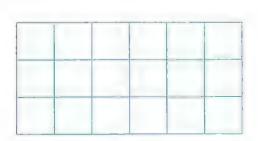


b.



2 Calculate the perimeter and the area of each of the following figures.

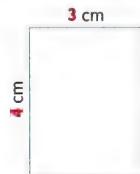
a.



Perimeter = ____ units

Area = ____ square units

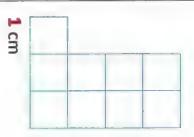
b.



Perimeter = ____ cm

Area = ____ square centimeters

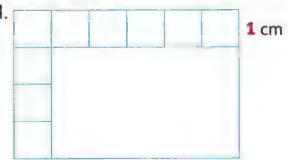
C.



Perimeter = ____ cm

Area = ____ square centimeters

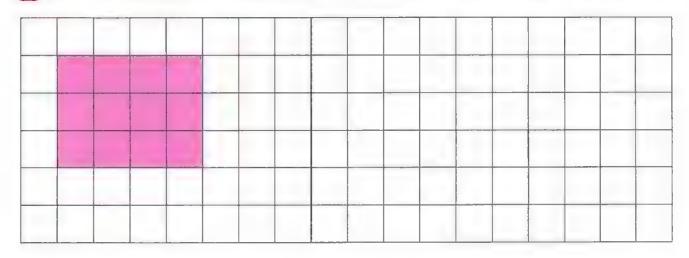
d.



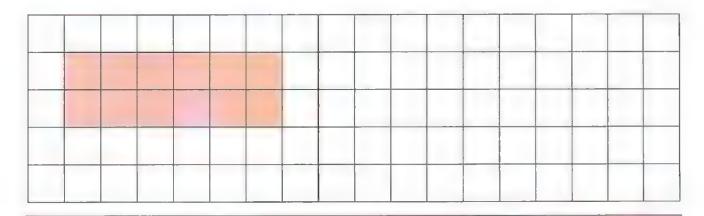
Perimeter = ____ cm

Area = ____ square centimeters

1 Draw a rectangle of the same area of the drawn rectangle in the grid.



Oraw a rectangle of the same perimeter of the drawn rectangle in the grid.



5 Maher wants to make a wooden frame around the window of his room which is 2 m long and 1 m wide, so what length of wood does Maher need for the frame?



6 A room wall is 5 meters long and 3 meters wide to be pasted with wallpaper.

Calculate the number of the square meters to cover the wall.



7 Find the product.



8 Complete the following.

e.
$$3 \times 20$$

$$= (--- \times ---) \times 10 = --- \times --- = -$$

General Revision on Chapter 6



1 Find each product of the following.

$$a. 4 \times 10 = ---$$

$$d.1 \times 3,000 = -$$

$$g.7 \times 50 = ---$$

p.
$$5 \times 4,000 = ----$$

$$n.7,000 \times 3 = ---$$

$$q.0 \times 8,000 = --$$

$$f. 0 \times 4 =$$

2 Add or subtract.

a. 138

+ 567

b.

6 5 3

- 296

C.

5 2 9

— 1 8 8

d.

7 8 4

+ 9

e.

4 5 8

367

f.

5 8 2

+ 528

g.

1,255

+2, 1 5 0

h.

L.

6,202

-4,053

i.

8,300

-2,150

j.

2,780

+3,430

k.

4, 1 3 0

(+)

5 2 4

+

6 4

2 0

+ 135

+2,142

$$q.3,569 + 367 = ---$$

$$n. 5,000 - 3,536 =$$

3 Write the place value of the colored digit in each number.

a. 1 29,456	
--------------------	--

b. 26,508

1		
ļ		
1		
1		

d. 304,467

4 Write the value of the colored digit in each number.

b. 201,241

d. 85,002

5 Put > , < or =.</pre>

a	Δ		2	6	5
u	4	٠	_	U	J

4,189

b. 38,206

38,106

c. 669,384

669,382

d.905,643

905,593

e.12,000

12 hundreds f. 15 thousands

1,500 tens

g.93,257

309,257

h.1,025

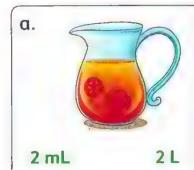
1,005

i. 5,035 + 30,00035 + 35,000

j. 31,508

Thirty thousand, five hundred eight.

6 Circle the better estimation for each.



b.



10 L 10 mL



50 mL 50 L

7 How many mL are there?

8 Choose the correct answer.

 a. 5 L = _____ mL
 (5 or 50 or 500 or 5,000)

 b. 17 Liters = ____ milliliters
 (17 or 170 or 1,700 or 17,000)

 c. ____ L = 7,000 mL
 (7 or 70 or 700 or 7,000)

 d. ___ Liters = 10,000 milliliters
 (10 or 100 or 1,000 or 1)

 e. A family size of milk bottle is measured by _____
 (mL or L)

 f. Water in basin is measured by _____
 (mL or L)

 g. A perfume bottle is measured by _____
 (mL or L)

Solve the following story problems.

a. O Bassem bought 5 books to read. Each book costs 90 pounds.

How much money did Bassem pay?

b. Amgad has 5,000 L.E. He bought a new mobile for 3,550 L.E.

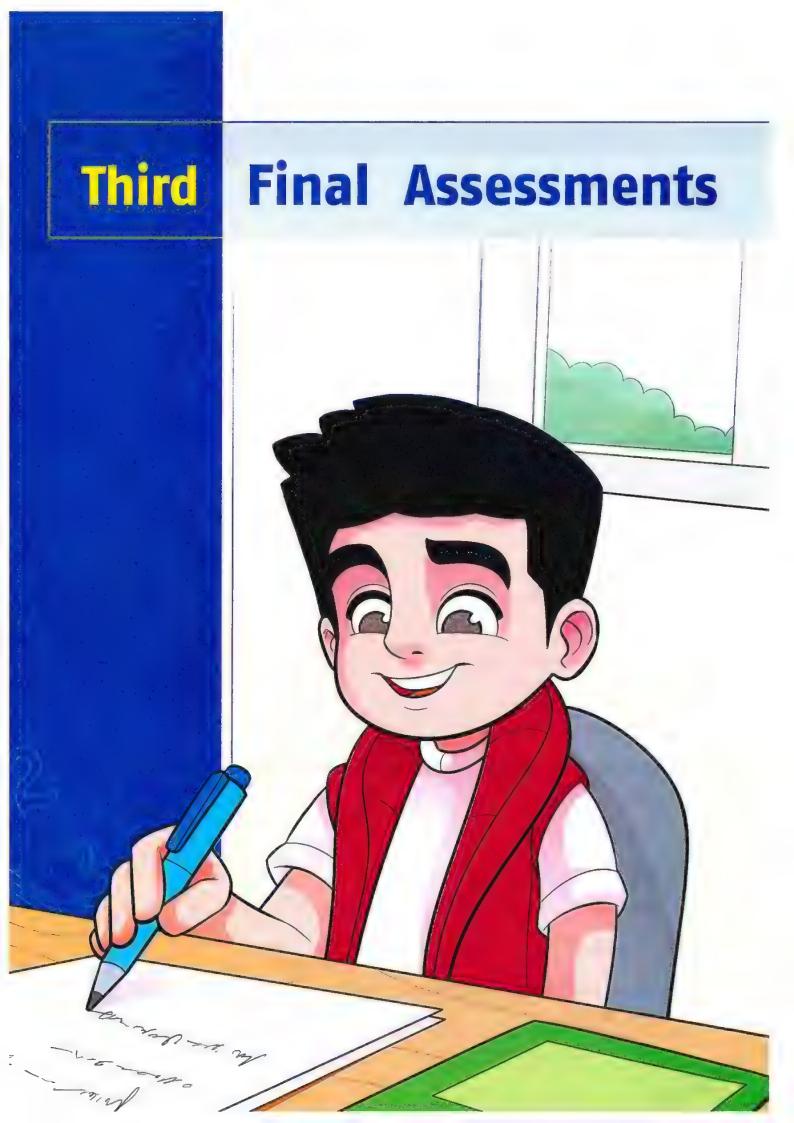
Find the remainder with Amgad.

c. In a fruit farm, there are 475 mango trees and 516 orange trees.

Find the number of all trees in this farm.

d. O Yousra had 3,000 pounds. She spent 1,250 pounds at the market and 375 pounds at the butcher shop.

How much money were left with her?





1 Choose.

-	0.4			
α.	84	cm	=	 mm

84

840

8,400

0>

() <

c.
$$700 + 30,000 + 5 + 80 = -$$

3,785

30,785

37,850

d. _____ is a multiple of 3

12

() 8

14

e. How many vertices are there in a parallelogram?

2

4

06

$$f. 9 \times 6 = (9 \times 4) + (9 \times ----)$$

09

5

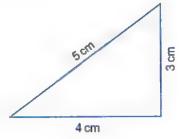
2

2 Complete.

b. Four hundred fifty-one thousands, three hundred thirty-one in standard form is ____

d. The perimeter of the opposite

polygon = -----+ ----- = ----- cm



f. The minute hand will point to number _____ when 45 minutes have passed.

a. Ahmed has 15 eggs and wants to put them equally in 5 plates.

How many eggs are there in each plate?

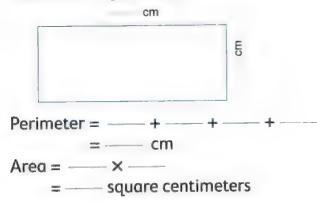
The number of eggs in each plate = -

b. Write the time in two ways.



It's_

c. Find the perimeter and the area of the following figure.



d. Use a ruler to measure the length of each of the following.

1.



mm



2.





mm



mm

4 Complete the tally table and the line plot.

Length of hand			
Length	Tally	Number	
11 cm	## 11		
12 cm	1111		
13 cm	1111111		
14 cm	1111		
15 cm	111		

Length of hand 12 13 14 15 Length



1 Choose.

- a. The place value of the digit 4 in the number 48,205 is
 - Hundred thousands
 Ten thousands
- () Thousands

- b. $2 \times --- = 4 + 4 + 4$
 - () 2

-)6
- c. ——— is a common multiple of 2 and 3
 - ()4

12

8

- d. 20,004 4,002
 - ()>

)<

- e. The area of the opposite figure =
 - () 8

15

30



- f. $300 \times 4 = -$
 - 12

- 120
- 1,200

2 Complete.

- a. $7 \times 8 = ---$
- b. 25,607 in expanded form is ——— + ——— + ——— + ———
- c. The perimeter of the rectangle which its dimensions are 5 cm and 6 cm is ___ cm
- d. The examples for parallelograms are : , and
- e. 3 liters = ---- mL
- f. 20, 24, 28, 32, _____, ____ (in the same pattern)

- 3 Answer the following.
 - a. Measure the length in mm.



mm

b. Draw the clock hands which represent the digital clock.

05:40



c. Arrange the following numbers in a descending order.

15,001

50 thousands

105,000

501 hundreds

The order is:-

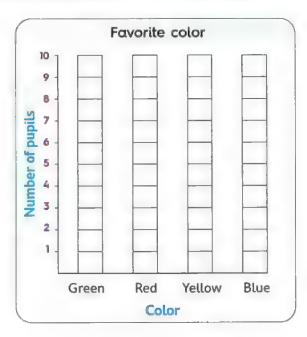
d. There are 6 apples in a box.

How many apples are there in 9 boxes?

e. Find the results.

f. Count the tallies. Write the total. Color the graph to show the data.

Favorite color			
Color	Tally	Number	
Green	##		
Red	HH		
Yellow		-	
Blue	HH 11		





1 Choose.

$$a. 2 - 0 = 0$$

()+

-

 $\bigcirc \times$

b. ——— is a common multiple of 5 and 10

25

30

15

c. The value of the digit 5 in 752,386 is ———

500

5,000

50,000

 $d.5 \times 8$ 4×10

)>

()<

() =

e. Which of the following does not represent a polygon?

0

0/\

 $f.6 \div 3 =$

18

02

 \bigcirc 3

2 Complete.

a. 5 thousands = ____ tens.

b. 7 liters = ____ milliliters.

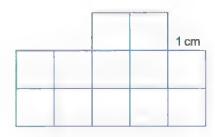
c. The factors of 4 are _____, ____,

d. 13, 17, 21, ——— (in the same pattern)

e. The area of the opposite

figure = _____ square centimeters

f. 7,592 – 4,317 =



a. Sameh has 153 marbles , Marwan has 223 marbles.

How many marbles do they have all together?

b. Write the numbers in order from least to greatest.

325,261

532,272

24,362

532,271

The order is:

c. Create an array.

4 rows of 2

3 columns of 5

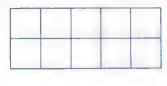
d. Our Math lesson started at 10:00.

It finished at



Math lesson took –

e. The area of the figure





90

80 70 60

30 20

1 Choose.

a. 232 thousands and 4 232,400

0>

() <

() =

b. — is a multiple of 2

13

15

20

c. The perimeter of the opposite figure is

----- units.

14

15

13

d. 3 × 80 = ----

24

240

 \bigcirc 2,400

e. How many mL are there?

40

() 30

20

f. 9 × 8 = ---

63

18

72

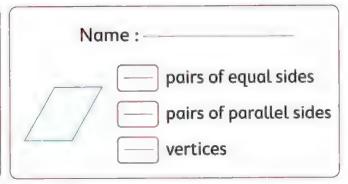
2 Complete.

c.
$$5 \times 8 = (5 \times 5) + (5 \times ---)$$

f. \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc (in the same pattern)

a. Name each figure and write the missing number.

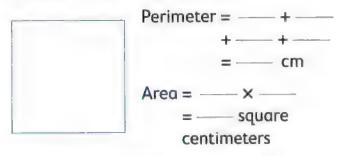
Nar	me : ————
	equal sides
	pairs of parallel sides
	vertices



b. Draw the clock hands.



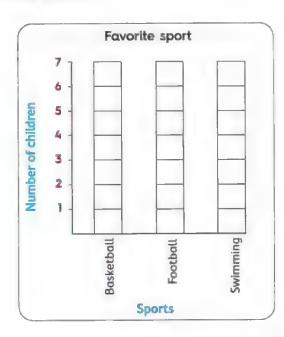
c. Find the perimeter and the area of the following square.



d. Sarah has 4 packets of sweets with 5 pieces of sweets in each one. How many pieces of sweets Sarah has?

e. Count the tallies. Write the total. Color the graph.

Favorite sport			
Sport	Tally	Number	
Basketball			
Football	## 11		
Swimming	HH 1		





1 Choose.

a. What number will the minute hand point to when 40 minutes have passed?

 \bigcirc 7

()8

9

b. 2 × 6 =

 $\bigcirc 4 \times 5$

 $\bigcirc 3 \times 4$

 \bigcirc 12 \times 0

c. The value of the digit 0 in the number 301,532 is

0

1,000

010,000

d. 700 mm = ____ cm

70

 \bigcirc 7

7,000

e. Which of the following does not represent a polygon?

Pentagon

Rectangle

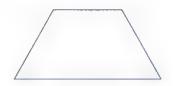
Circle

f. The name of the opposite figure is

 \bigcirc square

() trapezium

○ parallelogram



2 Complete.

a. Three thousand , two hundred five in standard form is

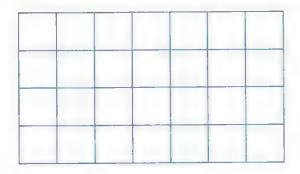
c. \times 9 = 45

d. 94 , 84 , 74 , _____ , ___ (in the same pattern)

e. The length of the opposite figure = ----- cm

f. The factors of 12 are: _____, ____, ____, ____, ____, ____, ____,

a. Draw a rectangle of perimeter 8 length units in the grid and find its area.



b. Draw the clock hands.



The area = square units

d. Find the result.

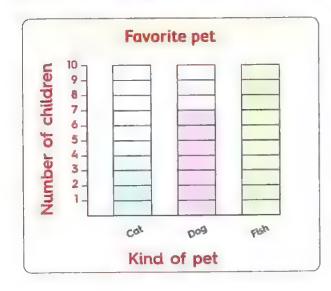
(1)
$$7 \times 8 = -----$$

(3)
$$18 \div 2 = ----$$

(2)
$$5 \times 7 =$$

(4)
$$1 \times 8 = ---$$

e. Use the bar graph to complete the tally table.



Favorite pet		
Pet	Tally	
Cat		
Dog		
Fish		



1 Choose.

()>

0<

0=

$$b.6+6+6+6=--\times 6$$

2

 $\bigcirc 4$

 $\bigcirc \epsilon$

()8

08

88

d. Which of the following does not represent a parallelogram?



0



e. 2 thousands = —— hundreds.

2

20

200

f. 648 + 9,000 =

90,648

9,648

64,809

2 Complete.



b. Nine hundred sixty-eight thousands, four hundred thirty-one in standard form is

d. The smallest number that can be formed from the digits

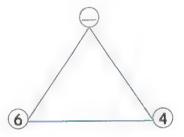
e. The number which the minute hand points to when 20 minutes have passed is ————

a. Find the answer.

b. Write the fact family.







c. Write the time in two ways.

1.



It is __

2.	now large
	11 ¹² 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2
	9 3 4
:	7 6 5
	:

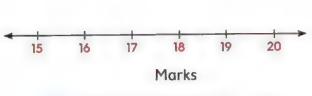
It is _

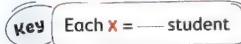
d. The school library had 5,775 books for borrowing. During one week 1,580 of them were borrowed and 370 books were missed. How many books are there in the library right now?

e. Complete the table and use it to draw a line plot.

Marks of students in an exam				
Marks	Tally	Number of students		
15				
16				
17				
18	1111			
19	1111			
20	11			

Marks of students in an exam







1 Choose.

a. The number of vertices of a hexagon = -

()3

b. $60 \times 3 =$

()18

180

120

c. — is a multiple of 3

10

d. The value of the digit 3 in the number 324,510 is _

300

3,000

300,000

e. 150 thousands 1,500 hundreds

()>

f. = $(8 \times 4) + (8 \times 5)$

 \bigcirc 8×9

 8×8

 8×5

2 Complete.



- b. 35 liters = ____ mL

rows of ———

- d. $7 \times 3 = --$

e. 30 ÷ 5 = ——

f. 20,000 + 700 + 50 + 7 = (in standard form)

a. Arrange in an ascending order.

734,520

97,541

725,743

97,394

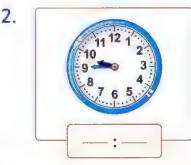
The order is: ---

b. Write the time in two ways.

1.



It's_



It's _

c. Find the result.

(3) 7 × 8 = ----

 $(4) 24 \div 3 = ----$

d. Find the area and the perimeter of each of the following.

1.



Perimeter = ---- cm

2.



Area = — square centimeters | Area = — square centimeters

Perimeter = ----- cm

e. Color to reach the required measure.



 $= 20 \, \text{mL}$





1 Choose.

a. Forty players are in teams of five. How many teams are there?

 \bigcirc 40 + 5

 \bigcirc 40 ÷ 5

 \bigcirc 40 – 5

b. $--- \times 5 = 5$

 \bigcirc 0

 \bigcirc 1

 \bigcirc 5

c. — = 200 tens

2,000

20

200

d. The area of the

opposite figure = ----

10

 \bigcirc 11



e. — is a common multiple of 3 and 5

10

9

()6

30

 $f. 4 + 4 + 4 + 4 + 4 = 4 \times -$

 $\bigcirc 4$

 \bigcirc 5

6

2 Complete.

b. $28 \div - = 7$

c. The perimeter of the opposite figure = ——— units.



- d. 70 mm = ---- cm
- e. The value of the digit 0 in the number 30,248 is ———

a. Measure the length of each object.



mm



b. Find the result.

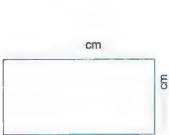
- mm

$$(1)$$
 7,850 $-$ 1,700 $=$

c. Join.

$$2. \boxed{7 \times 2}$$

- d. What number will the minute hand point to when 10 minutes have passed? —
- e. Find the area and the perimeter of each of the following.





square centimeters

square centimeters

Perimeter = -



1 Choose.

7

8

9

9

12

15

c.
$$5 \times 300 = -----$$
 tens

1,500

150

15

d.
$$99 \times 1$$
 $99 + 1$

0>

()<

()=

$$e. 50,000 + 700,000 + 3 + 40 + 800 =$$

57,348

843,705

750,843

58

580

5,800

2 Complete.

- a. The perimeter of the triangle whose side lengths are 4 cm , 5 cm and 8 cm is ——— cm
- b. The trapezium has ———— pair(s) of parallel sides and the parallelogram has ———— pair(s) of parallel sides.
- c. The value of the digit 4 in the number 904,526 is and its place value is ———

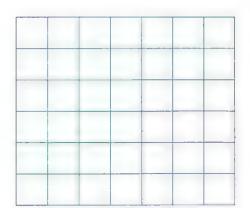
$$d.7 \times --- = (7 \times 4) + (2 \times 7)$$

- Answer the following.
 - a. Show 5 equal groups of 4 by drawing circles and dots then , find the product.



b. Find the results.

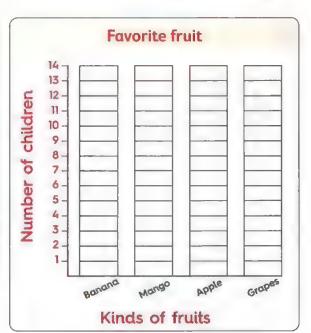
- c. Draw a rectangle on the grid of area 20 square units and find its perimeter.
- d. Hoda saw some dogs in a park.She counted 32 legs.How many dogs did Hoda see ?



- e. Draw the clock hands, write the time in the digital clock to show the time "quarter to 4"
- f. Convert the same information from the tally table into a bar graph.



Favorite fruit					
Fruit	Tally				
Banana	## ## 11				
Mango	## 111				
Apple	HH HH IIII				
Grapes	HH 1				



Model 10



1 Choose.

a. Six thousand, five hundred two in standard form is

6,520

6,502

6,052

b. $5 \times 9 = -$

() 35

40

45

c. The estimated length of the opposite object = -

() 10 mm

10 cm

10 m

 $d.40 \div 5$ 2×4

()>

e. 700,000 = — hundreds

7,000

700

70

f. 17 L = ---- mL

()17

1,700

17,000

2 Complete.

a. Hany went to a party at 7:00, the party finished at , the time period of the party = — minutes.



b. The perimeter of the opposite triangle = ----

c. 500,000 + 40 + 700 =

 $d.0 \times 8 =$

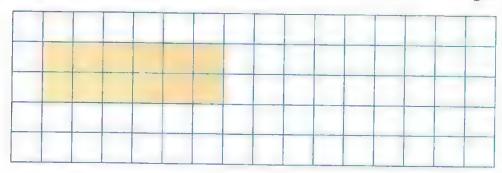
(in the same pattern)

3 cm

e. 分分分分分分分分分分分分

MINISTEL THE LOCKOWILIS	3	Answer	the	following
-------------------------	---	--------	-----	-----------

a. Draw a rectangle of the same area of the drawn rectangle in the grid.



b. The school library had 7,530 books for borrowing. During one week 2,370 of them were borrowed. How many books were left?

c. Complete the table.

Shape	Name	Number of sides	Number of vertices
\bigcirc			

- d. Complete the tally table, then answer the questions
 - 1. What is the number of children liked blue?
 - 2. Which color is liked the most?
 - 3. How many more children liked blue than red?

Favorite color						
Color	Tally	Number				
Red						
Blue	## 11					
Yellow	## ## 1					
Black	1111					



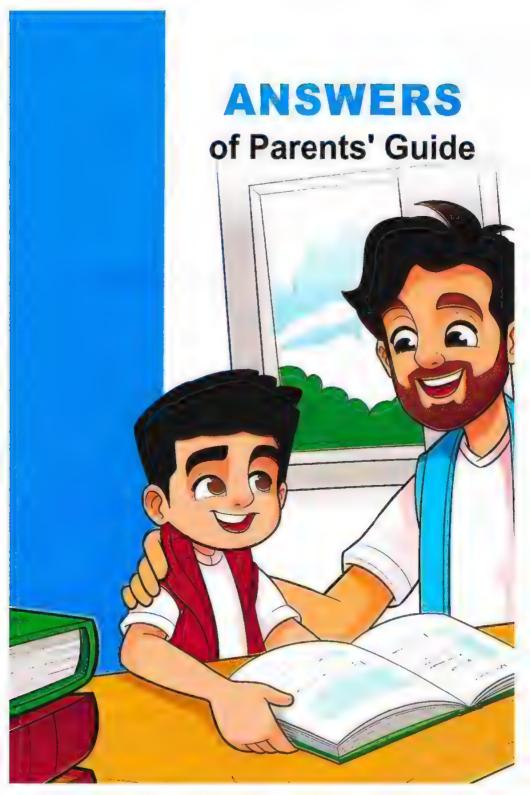
Mathematics

the second of Secondary

GUIDE ANSWERS

FREE PART





Answers of Revision

Revision 1

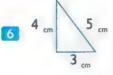
1

- 182 . Yes
- 2 01:30
- 3 245
- 4 a. odd b. even c. even d. odd
- **5** a. < b. > c. =
- 0.8
- 7 a. 100 b. 300 c. 700
- 8 Sandwiches sold together = 238 + 415 = 653 sandwiches
- 0 5
- 10 a. 💮 🖰 b. 🧷 🧷 🔿

Revision

- ion~
- 1 a. 754 b. 3 c. $\frac{2}{3}$ d. 9 e. 515
- 23 + 14 + 39 + 16= (23 + 14) + (39 + 16)= 37 + 55 = 92
- 3 5 kg
- 4 90



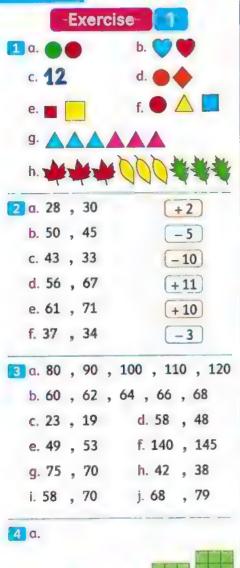


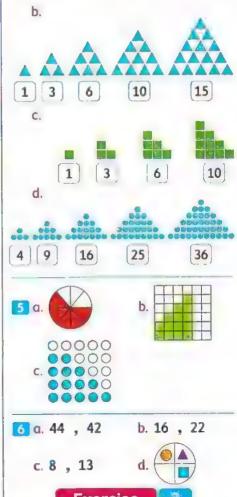
- 7 a. 171
- b. 115
- 8 The money left = 354 160 = 194 pounds
- 9 a. 19,21,23 b. 59,49,39 c. 20,25,30
- 103 + 3 + 3 + 3

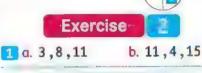
Revision 3

- 1 a. 4
- b. 3
- c. 70
- d. 26

- $\frac{2}{3}$
- 3 a. 338
- b. 579
- 4 cylinder , 0 , 0 , 2
- **5** a. 233
- Ь. 188
- 6 10
- 77 Order is: 291,219,192,129
- 8 a. Eighty
- b. Five
- c. Fourteen
- d. Sixty
- 9 03:30 , P.M.
- 10 The weight in all = 67 + 85 = 152 kilograms







a.	Heads	Tails
	4111	####

Tails
####
##

3

Color	Tally	Number
Blue	####	10
Red	1111	7
Green		3

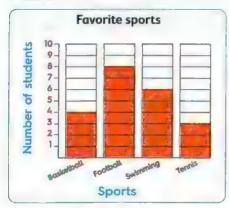
g. 10

b. Blue

c. Green, Red, Blue

4

Favorite Sports					
Sports	Number of students	Number			
Basketball		4			
Football	111111	8			
Swimming	##1	6			
Tennis		3			

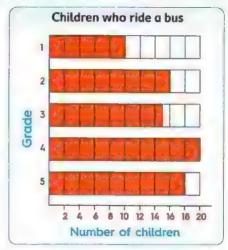


a. 8

b. Football c. Tennis

5

(bus	
Grade	Number of children	Number
1	####	10
2	HHHH1	16
3	####	15
4	#####	20
5	#####	18



1. g. 20

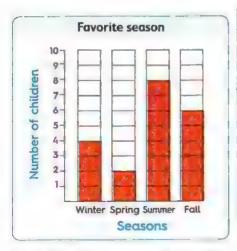
b. 15

c. Grade 4 d. Grade 1

2. a. ✓ b. X c. ✓ d. X

6

Ou	ır favorite sed	ison	
Season	Tally	Number	
Winter		4	
Spring		2	
Summer	1111111	8	
Fall	##1	6	



1. a. Summer

b. Spring

c. 20

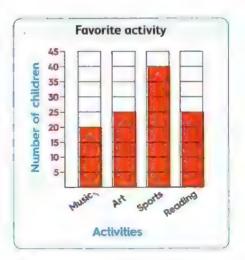
2. q. √

b. X

c. 1

7

Vegetable	Tally	Number
Music	THE THE THE THE	20
Art	THE THE THE THE	25
Sports	***************************************	40
Reading	#######	25



1. g. 20

b. Music

c. Sports

d. 65

e. 15

2. a. =

b. >

-Exercise

1 a. 6

b. 3

c. 9

2 a. 4 students

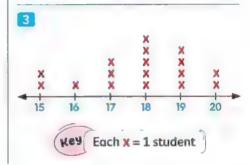
b. 5 students

c. 3 students

d. 6 students

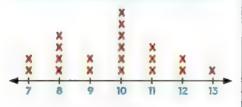
e. 21 students

f. 7 students



4

Ages of children in karate class



Ages of children

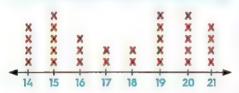


- a. 3
- b. 10
- c. 20

5

Hours	14	15	16	17	18	19	20	21
Taliy		##	M	11		##	##	Ш
Frequency	4	5	3	2	2	5	5	4

Study hours per week



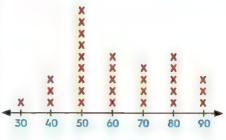
Number of hours

Rey Each X stands for 1 student

- a. 2 students
- b. 4 students
- c. 5 students
- d. 2 students

Saved money 30 40 50 60 70 80 90 Frequency 1 3 9 5 4 5 3

Money saved in a week



Saved money

Key Each x stands for 1 child

- 1. a. 3
- b. 1
- c. 50

- 2. a. √
- b. X
- c. X

Exercise

- 1 a. centimeter
- b. millimeter
- c. meter
- d. meter
- e. centimeter
- f. meter

- 2 a. 5
- b. 6
- c. 7

- d. 34
- e. 3
- f. 32

- g. 43
- h. 51
- 1.4

- 1.4
- k. 4
- ___

33,4,2,5

The order is: 5, 4, 3, 2

- 4 a. ____ 4
- b. ____3
- d. ____ 2

5 a. X

c. X

c. 7

f. 2

c. 400

f. 500

1. 4

L. 1

r. 9

o. 800

- d. 🗸 6 a. 30

b. ✓

e. X

- Ь. 240
- d. 50 e. 500
 - h. 70 g. 6
- 7 a. 70
- b. 30
- d. 800 e. 180
- q. 5 h. 3
- k. 100
- j. 20 m. 70
- n. 60
- q. 8 p. 600
- s. 3,50 t. 7,5

- **8** a. ✓
- b. **√**
- c. 🗸

- d. X
- e. **√**
- f. X

- 9 a. >
- b. =
- c. <

f. =

1. <

- d. >
- e. >
- 1. <

- q. <
- h. =
- k. > j. <
 - n. < m. <
- 10 90 cm.
- 111 a. 30
- b. 20
- c. 70

- d. 6
- e. 200
- f. 5

Exercise 5

1

Number	Thousands	Hundreds	Tens	Ones
a. 5,839	5	8	3	9
b. 7,256	7	2	5	6
C. 2,103	2	1	0	3
d. 4,360	4	3	6	0
e. 5,018	5	0	1	8
f. 918	0	9	1	8

- 2 a. 3.000
- b. 4.000

c. 9

d. 70

e. 0

- f. 100
- q. 60
- h. 30
- 3 a. Thousands , 3,000
 - b. Thousands , 6,000
 - c. Ones. 2
- d. Ones, 3
- e. Hundreds . 600
- f. Thousands , 1,000
- g. Tens . 0
- h. Hundreds . 500
- i. Thousands , 5,000
- j. Tens , 80
- k. Hundreds . 0
- L. Thousands, 2,000
- $\boxed{4}$ a. 3.000 + 200 + 80 + 4
 - b. 5.000 + 100 + 20 + 3
 - c. 9.000 + 800 + 50 + 6
 - d. 8,000 + 30 + 2
 - e. 7,000 + 500 + 4
 - f. 6,000 + 800 g. 4,000 + 1

- 5 a. 2.634
- b. 6.871
- c. 4.593
- d. 3.309
- e. 6.021
- f. 1.110
- g. 7.650 i. 1.900
- h. 9.005 i. 5.040
- 6 g. 8.000 + 400 + 90 + 1 = 8.491
 - **b.** 2.000 + 100 + 70 + 5 = 2.175
 - c. 3,000 + 500 + 20 + 7 = 3,527
 - d. 9.000 + 700 + 2 = 9.702
 - e. 1.000 + 40 + 8 = 1.048
 - f. 4,000 + 500 + 3 = 4.503
 - 9.5000 + 700 + 10 + 6 = 5.716
 - h. 3,000 + 40 + 6 = 3.046
- 7 a. 2,000
- b. 3.003
- c. 20.5
- d. 40
- e. 400
- f. 70,700,7,000
- q. 80,3,000
- h. 4,000,6
- i. 7, 6, 4, 9
- 1.5,3,0,2
- 8 a. 5.378
- b. 2,531
- c. 9,406
- d. 1.054
- e. 3.002
- f. 4.040
- g. 2,017
- h. 8,500
- 9 a. Three thousand, seven hundred fifty-one
 - b. Four thousand, four
 - c. Seven thousand, two hundred
 - d. Six thousand, five hundred ten
 - e. Five thousand, three hundred seventeen

- f. Eight thousand, eighty
- a. Five thousand, three hundred twenty-six
- h. Two thousand, twenty
- 10 a. 6
- b. 20
- c. 700
- d 8
- e 5
- £ 90

- a. 300
- h. 80
- 4.000

- 1. 8.000
- k. 40
- L. 800

- 111 a. <
- b. <
- C. <

- d. >
- e. <
- f. >

- q. >
- h. >
- i. =

- i. <
- k. <
- . >

- m. <
- 0. = n. =
- 12 a. 9.843, 3.489 b. 5,432, 2,345

 - c. 8,651,1,568 d. 7,544,4,457
 - e. 7,320,2,037
- f. 9,430,3,049
- 13 a. The order is: 987, 6,978, 6.987, 7.896
 - b. The order is: 3,521,4,782, 5,336,9,835
 - c. The order is: 993, 1,281, 2.990, 4.621, 6,170
 - d. The order is: 784, 4,278, 4.279, 7.249, 7.942
- 14 g. The order is: 5,300,3,805, 1,500,1,050
 - b. The order is: 9,541,7,321, 6,541,941

- c. The order is: 5,719,3.010,
 - 2.605, 1.938, 456
- d. The order is: 6,204,5,441,
 - 3.009 . 2.917 . 708
- 15 a. Hundreds
- b. 9,000
- c. 9.999
- d. 1.000
- e. 9,876
- f. 1.023
- q. 1,111
- h. 9,998
- 16 a. /
- b. 1
- C. X
- d. X
- e. /
- f. X
- q. X
- 17 The numbers are: 5,432,5,423
 - and 5.342
- (Answers may vary)
- 18 2,319

Exercise

- 1 a. 65,810 c. 921,348
- b. 308,001
- e. 102,421
- d. 200.720 f. 31,065
- a. 85,609
- h. 407.105
- **2** a. 3,000
- **b.** 80,000

- c. 50
- d. 200
- e. 500,000
- f. 90,000

g. 0

h. 1,000

- 3 a. Ten thousands . 60.000
 - b. Ten thousands , 80,000
 - c. Hundred thousands . 700.000
 - d. Hundred thousands . 100.000
 - e. Hundreds , 300
 - f. Ten thousands . 40.000
 - q. Thousands . 0
 - h. Thousands , 1.000
 - I. Thousands . 9.000
 - i. Hundreds . 0
- 4 a. Hundred thousands
 - b. 700,000
 - c. Ten thousands
 - d. 0

e. 5

- f. 5
- g. Hundred thousands
- h. Ten thousands
- 5 a. 31.574
- b. 278,621
- c. 308.010
- d. 504,030
- e. 97,205
- f. 330,300
- q. 39,415
- h. 68.092
- i. 300,928
- 1. 500,505
- 6 a. 90.000 + 5.000 + 600 + 80 + 3
 - b. 500,000 + 40,000 + 3,000
 - +800 + 70 + 6
 - c. 60,000 + 2,000 + 300 + 10 + 9
 - d.700,000 + 60,000 + 2,000+300 + 10 + 9

- e. 10.000 + 5.000 + 700 + 80
- f. 200.000 + 30.000 + 40 + 5
- q.70.000 + 100 + 10 + 6
- h. 800,000 + 10,000 + 2,000 + 4
- i. 400.000 + 40
- 7 a. 90.000
 - b. 500,000 1,000 c. 8,000
 - d. 40,000
- e. 600,000.1
- f. 100,000, 2,000 g. 210,564
- h. 35,029
- 1. 25,798
- i. 905.017
- k. 16,439
- 8 a. Two hundred thirty-five thousand, seven hundred ninety-one
 - b. Nine hundred four thousand six
 - c. Seventy-one thousand. seventy-one
 - d. Sixty thousand six hundred six
 - e. Seven hundred forty-six thousand . ninety
 - f. Fifty-four thousand, three hundred twenty-nine
 - q. Seven hundred nine thousand fifty.
 - h. Eighty thousand . six hundred thirty-six
- 9 a. → 50.000
 - b. ---- Hundred thousands
 - c. Ten thousands

- d. ---- 500,000
- e. ---- 505,055
- f. ---- 550,550
- 10 a. <
 - . < b. >
 - d. > e. <
 - a. = h. =
 - j. = k. >
 - m. <
 - 0 -
 - p. <
- n. = q. =

C. >

· f. <

i. <

1. >

0. <

- 11 a. 87,632,23,678
 - b. 864,321,123,468
 - c. 97,210,10,279
 - d. 653,210,102,356
 - e. 87,400,40,078
 - f. 975,310,103,579
 - g. 975,421,124,579
 - h. 973,110,101,379
- 12 a. The order is:

9,372,11,493,98,505,132,567

b. The order is:

27,256,27,652,125,762, 152,567

c. The order is:

8,339,83,986,83,987 ,833,322,833,400

d. The order is:

93,259,96,547,932,599 .965,478,965,852 e. The order is:

4,720 , 24,270 , 24,571

,724,072,724,172

f. The order is:

100,000,102,345,111,111

,987,654,999,999

13 a. The order is:

103,002,23,001,21,300,3,201

b. The order is:

101,559,59,002,21,052,11,112

c. The order is:

773,550,637,961,618,765

,81,236,38,472

d. The order is:

914,231,914,230,12,606

.12,605 .9,380

e. The order is:

500,007,500,000,100,000

,99,999,3,428

14 a. X

b. 1

C. 1

d. X

e. X

f. X

g. X

h. 1

15 99,999, 716,012, 50,214

, 321,000 , 200,100

111,111,200,000,20,000

, 13,699 , 9,216

17 4

18 93,210

(Answer may vary)

Exercise 7

- 1 a. 4,4
- b. 2.7
- c. 6.3
- d. 1.5
- e. 5,3
- f. 4.4
- 2 a. 2 rows of 3

 X X X

 X X X
- C. 1 row of 6
- d. X 1 column X of 5 X
- f. 7 columns of 2 XXXXXXX XXXXXX

- 3 a. 12
- b. 10

c. 14

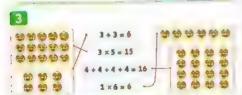
- d. 18
- 4 a. 2,5,10
- b. 7,1,7
- c. 5,3,15
- d. 4,3,12
- e. 3.5.15
- f. 6,3,18
- 5 a. 4,3,12
- b. 5,3,15
- c. 1,5,5
- d. 6, 3, 18
- 6 a. Repeated addition: 4+4+4=12Skip counting: 4,8,12
 - b. Repeated addition: 5 + 5 = 10Skip counting: $5 \cdot 10$

- c. Repeated addition: 1+1+1=3Skip counting: $1, 2, \boxed{3}$
- d. Repeated addition: 3 + 3 = 6Skip counting: 3, 6
- e. Repeated addition: 7 + 7 + 7
 = 21
 Skip counting: 7,14,21
- f. Repeated addition: 4+4+4+4= 16 Skip counting: 4,8,12,16
- 75+5+5+5=20

Exercise 8

- 1 a. 2+2+2+2+2=10 $5\times 2=10$
 - b. 4+4=8, $2\times 4=8$
 - c. 3+3+3=9, $3\times 3=9$
 - d. 5+5+5+5=20, $4\times 5=20$
 - e. 4+4+4+4+4+4=24 $6\times 4=24$
 - f. 6+6+6+6+6=30, $5\times 6=30$
- **2** a. 2 rows of 5 , $2 \times 5 = 10$
 - **b.** 4 rows of 5 , $4 \times 5 = 20$
 - c. 3 rows of 6, $3 \times 6 = 18$
 - d. 5 columns of 2, $5 \times 2 = 10$
 - e. 2 columns of 4 , $2 \times 4 = 8$
 - f. 5 columns of 3, $5 \times 3 = 15$
 - g. 4 columns of 3, $4 \times 3 = 12$
 - h. 4 rows of 1, $4 \times 1 = 4$

- i. 3 columns of 4, $3 \times 4 = 12$
- j. 3 rows of 3 . $3 \times 3 = 9$
- k. 5 rows of 4 . $5 \times 4 = 20$
- L. 6 columns of 4 , $6 \times 4 = 24$



- 4 a. 4,12 b. 3,21

 - c. 5.20 d. 5.5.5.5.20
 - e. 6,3,18 f. 4,9,36
 - g. 6.1.6
- b. 4,8,32
- i. 7,7,7,7.28 | 9,9,18
- k. 2.2.2.6
- 1. 6.6.6.6.24
- m.6,18
- n. 5,5,5,5,5,25
- 0. 3.24
- p. 5,10
- 5 a. 5

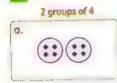
F

 $b.4 \times 2$

c. 9

d. 3

e. 7

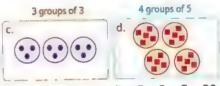


4 + 4 = 8 $2 \times 4 = 8$ b.

3 groups of 2

2+2+2=6

 $3 \times 2 = 6$



3 + 3 + 3 = 9 $3 \times 3 = 9$

5+5+5+5=20

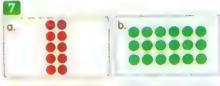
 $4 \times 5 = 20$

6

2 groups of 3



3 + 3 = 6 $2 \times 3 = 6$ 4 + 4 + 4 + 4 + 4 = 20 $5 \times 4 = 20$



5 | x | 2 | = 10

 $3 \times 6 = 18$



 $5 \times 5 = 25$

 $2 \times 8 = 16$



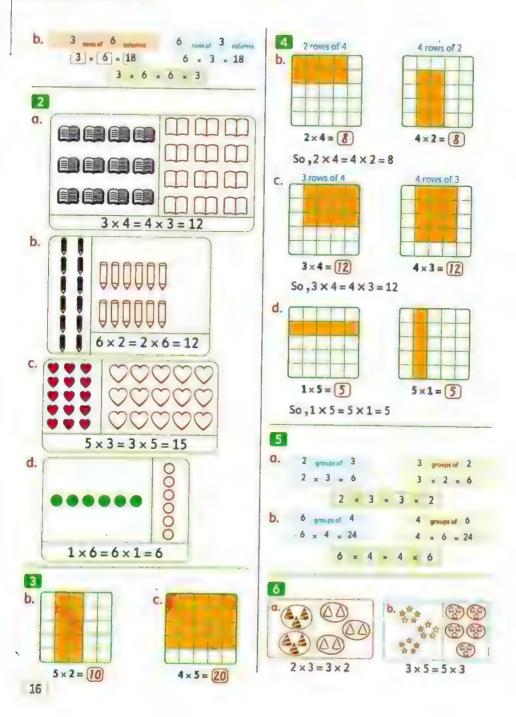
4 × 7 = 28

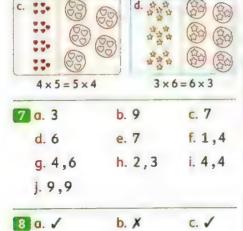
Exercise

11 5 rows of 3 columns 3 rows of 5 columns a. 5 × 3 × 15

3 × 5 = 15

5 x 3 = 3 x 5

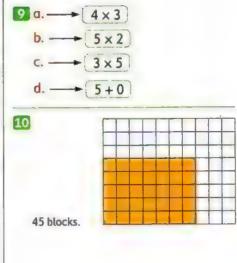




e. X

d. 1

f. X



Exercise 10

11
$$\sigma$$
. \longrightarrow $3 \times 5 = 15$

b.
$$\longrightarrow 3 \times 2 = 6$$

c.
$$\rightarrow$$
 $6 \times 2 = 12$

$$d \longrightarrow 2 \times 5 = 10$$

2 a. $2 \times 5 = 10$ pieces

b.
$$4 \times 5 = 20$$
 rolls

c.
$$6 \times 3 = 18$$
 cookies

d.
$$8 \times 3 = 24$$
 pencils

$$e. 2 \times 9 = 18$$
 hours

f.
$$4 \times 8 = 32$$
 oranges

$$q.6 \times 4 = 24 \text{ legs}$$

$$h.5 \times 7 = 35$$
 balls

$$4 \times 7 = 28$$
 balls

Number of balls

$$= 35 + 28 = 63$$
 balls

Answer may very based on your own story

Sample answer:

Vera has 4 bags each bag has 5 toys. How many toys are there in all?

$$4 \times 5 = 20$$
 tovs

Ways of solving may vary

Skip counting by 13 s

then,
$$12 \times 13 = 156$$

Exercise 11

1

$$2 \times 0 = 0$$
$$2 \times 1 = 2$$

$$2 \times 2 = 4$$

$$2 \times 3 = 6$$

$$2 \times 4 = 8$$

$$2 \times 5 = 10$$

$$2 \times 6 = 12$$

$$2 \times 7 = 14$$

$$2 \times 8 = 16$$

$$2 \times 9 = 18$$

$$2 \times 10 = 20$$

$$3 \times 0 = 0$$

$$3 \times 1 = 3$$

$$3 \times 2 = 6$$

$$3 \times 3 = 9$$

$$3 \times 4 = 12$$

$$3 \times 5 = 15$$

$$3 \times 6 = 18$$

$$3 \times 7 = 21$$

$$3 \times 8 = 24$$

$$3 \times 9 = 27$$

$$3 \times 10 = 30$$

$$4 \times 0 = 0$$

$$4 \times 1 = 4$$

$$4 \times 2 = 8$$

$$4 \times 3 = 12$$

$$4 \times 4 = 16$$

$$4 \times 5 = 20$$

$$4 \times 6 = 24$$

$$4 \times 7 = 28$$

$$4 \times 8 = 32$$

$$4 \times 9 = 36$$

$$4 \times 10 = 40$$

$$2 \times 7 = 14$$

$$2 \times 5 = 10$$

$$2 \times 2 = 4$$

$$2 \times 3 = 6$$

$$2 \times 9 = 18$$

$$2 \times 1 = 2$$

$$2 \times 4 = 8$$

$$2 \times 8 = 16$$

$$2 \times 6 = 12$$

$$2\times10=20$$

$$2 \times 0 = 0$$

h. 2

$$3 \times 5 = 15$$

$$3 \times 1 = 3$$

$$3 \times 7 = 21$$
$$3 \times 0 = 0$$

$$3 \times 9 = 27$$

$$3 \times 2 = 6$$

$$3 \times 10 = 30$$

$$3 \times 4 = 12$$

$$3 \times 6 = 18$$

$$3 \times 3 = 9$$

$$3 \times 8 = 24$$

$$4 \times 3 = 12$$

$$4 \times 9 = 36$$

$$4 \times 6 = 24$$

$$4 \times 1 = 4$$

$$4 \times 0 = 0$$

$$4 \times 2 = 8$$

$$4 \times 7 = 28$$

$$4 \times 4 = 16$$

$$4 \times 8 = 32$$

$$4 \times 5 = 20$$

2 a. 21 b. 8

3 a. 32 b. 20

i. 3

m.0

e. X

$$4 \times 10 = 40$$

$$4 \times 0 = 0$$

$$4 \times 2 = 1$$

k. 27

0.20

k. X

5 a.
$$\longrightarrow$$
 5+5 b. \longrightarrow 3 x 2
c. \longrightarrow 6+3 d. \longrightarrow 3 x 6

c.
$$3 \times 6$$
, 9×2

$$d. \left[4 \times 0 \right], \left[0 \times 3 \right]$$

e. =
$$f. > g. = h. <$$

$$i. < i. < k. = l. =$$

$$q. = r. <$$

$$9 a. 4 \times 9 = 36 L.E.$$

b.
$$3 \times 10 = 30$$
 flowers

c.
$$2 \times 8 = 16$$
 lions

- f. 3,6,9,12,15,18,21,24, 27,30,33,36,39
- q. 42,45,48
- h. 4,8,12,16,20,24,28,32, 36,40,44,48
- i. 42, 48, 54 (Answers may vary)
- j. 84,90,96
- 11 a. +
- b. X
- C. +

- d. +
- e. x
- f. +

121,2 and 3

Exercise 12

1

1

$$5 \times 0 = 0$$

$$5 \times 1 = 5$$

$$5 \times 2 = 10$$

$$5 \times 3 = 15$$

$$5 \times 4 = 20$$

$$5 \times 5 = 25$$

$$5 \times 6 = 30$$

$$5 \times 7 = 35$$

$$5 \times 8 = 40$$

$$5 \times 9 = 45$$

$$5 \times 10 = 50$$

$$6 \times 0 = 0$$

$$6 \times 1 = 6$$

$$6 \times 2 = 12$$

$$6 \times 3 = 18$$

$$0 \times 3 = 19$$

$$6 \times 4 = 24$$

$$6 \times 5 = 30$$
$$6 \times 6 = 36$$

$$6 \times 7 = 42$$

$$6 \times 8 = 48$$

$$6 \times 9 = 54$$

$$6 \times 10 = 60$$

$$7 \times 0 = 0$$

$$7 \times 1 = 7$$

$$7 \times 2 = 14$$

$$7 \times 3 = 21$$

$$7 \times 4 = 28$$

$$7 \times 5 = 35$$

$$7 \times 6 = 42$$

$$7 \times 7 = 49$$

$$7 \times 8 = 56$$

$$7 \times 9 = 63$$

$$7 \times 10 = 70$$

2

$$5 \times 6 = 30$$

$$5 \times 2 = 10$$

$$5 \times 1 = 5$$

$$5 \times 8 = 40$$

$$5 \times 0 = 0$$

$$5 \times 3 = 15$$

$$5 \times 10 = 50$$

$$5 \times 7 = 35$$

$$5 \times 5 = 25$$

$$5 \times 4 = 20$$

$$5 \times 9 = 45$$

$$6 \times 4 = 24$$
$$6 \times 10 = 60$$

$$6 \times 10 = 60$$
$$6 \times 0 = 0$$

$$6 \times 3 = 18$$

$$6 \times 1 = 6$$

$$6 \times 6 = 36$$

$$6 \times 5 = 30$$
$$6 \times 8 = 48$$

$$6 \times 2 = 12$$

$$6 \times 7 = 42$$

$$6 \times 9 = 54$$

_			
7	×	8	= 56
7	×	1	= 7
7	×	9	= 63
7	×	0	= 0
7	×	2	= 14
7	X	10	= 70
7	X	6	= 42
7	×	3	= 21
7	×	5	= 35
7	X	4	= 28
7	×	7	= 49

3 a. 49	b. 30	c. 24
d. 21	e. 48	f. 70
g. 30	h. 10	i. 40
j. 20	k. 5	l. 45
m. 28	n. 35	o. 36
p. 42	q. 54	r. 56
s. 35	t. 14	u. 25
v. 0	w. 18	x. 42
y. 63	z. 15	
4 a. 50	b. 70	c. 10
d. 25	e. 30	f. 15
g. 56	h. 60	i. 35
j. 42		
5 a. <	b. <	c. <
d. <	e. >	f. >
g. >	h. >	i. >

j. <	k. <	L =
m. <	n. <	0.>
p. >	q. >	r. <
s. =	t. <	u. <
v. =		ů.

b. 27
d. 35
f. 1-1
h. 3 + 10
· j. 6 × 8

K. JAO		
7 a. —→ 2	b.	— →1
c. → 3	d.	 5
e. — 4		
8 a. ✓	b. X	c. 🗸
d. 🗸	e. 🗸	f. 🗸
g. 🗸	h. X	ī. X
j. √	k. 🗸	l. 🗸

J.	•	N. W	
9 a.	Yes	b. Yes	c. No
d.	Yes	e. Yes	f. No
10 a.	6 × 2 =	12 kg	

	b.	8	×	5	=	40	pupils
	c.	7	×	4	=	28	pounds
	d.	5	×	9	=	45	oranges
-	_	_	_	_	_		

Ь.	35,70	and 105	
a.	30,60	ana 90	

12 The number of multiples is 0

Exercise 13

1

$$8 \times 0 = 0$$

$$8 \times 1 = 8$$

$$8 \times 2 = 16$$

$$8 \times 3 = 24$$

$$8 \times 4 = 32$$

$$8 \times 5 = 40$$

$$8 \times 6 = 48$$

$$8 \times 7 = 56$$

$$8 \times 8 = 64$$

$$8 \times 9 = 72$$

$$8 \times 10 = 80$$

$$9 \times 0 = 0$$

$$9 \times 1 = 9$$

$$9 \times 2 = 18$$

$$9 \times 3 = 27$$

$$9 \times 4 = 36$$

$$9 \times 5 = 45$$

$$9 \times 6 = 54$$

$$9 \times 7 = 63$$

$$9 \times 8 = 72$$

$$9 \times 9 = 81$$

$$9\times10=90$$

$$10 \times 0 = 0$$
$$10 \times 1 = 10$$

$$10 \times 2 = 20$$

$$10 \times 3 = 30$$

$$10 \times 4 = 40$$

$$10 \times 5 = 50$$

$$10 \times 6 = 60$$

$$10 \times 7 = 70$$

$$10 \times 8 = 80$$

$$10 \times 9 = 90$$

$$10 \times 10 = 100$$

2

$$8 \times 3 = 24$$

$$8 \times 5 = 40$$

$$8 \times 9 = 72$$

$$0 = 0 \times 8$$

$$8 \times 7 = 56$$

$$8 \times 2 = 16$$

$$8 \times 4 = 32$$

$$8 \times 6 = 48$$

$$8 \times 8 = 64$$

$$8 \times 1 = 8$$

$$8 \times 10 = 80$$

$$9 \times 2 = 18$$

= 72

9 x 8

$$9 \times 6 = 54$$

$$9 \times 10 = 90$$

$$9 \times 4 = 36$$

$$9 \times 0 = 0$$

$$9 \times 7 = 63$$

$$9 \times 3 = 27$$
$$9 \times 9 = 81$$

$$9 \times 5 = 45$$

$$9 \times 1 = 9$$

$$10 \times 0 = 0$$

$$10 \times 3 = 30$$

$$10 \times 6 = 60$$

$$10 \times 9 = 90$$

$$10 \times 1 = 10$$

$$10 \times 4 = 40$$

$$10 \times 7 = 70$$

$$10 \times 5 = 50$$

$$10 \times 2 = 20$$

$$10 \times 8 = 80$$

$$10\times10~=100$$

- c. 40 3 a. 56 b 54 e. 45 f 100 d 0 g. 16 h. 81 60 1. 32 k 9 1.70 0.24 m 8 n. 72 г. 80 a. 64 n. 36 u. 40 5. 80 t. 63 x. 50 w. 48 v. 72 z. 30 v. 90 4 a. 40 b. 100 €. 20 f. 30 d. 45 e. 40 i. 10 q. 48 h. 63 j. 40 k. 90 L 80 b. < c. < 5 a. < $f_{\cdot} =$ d. < e. > i. < h. > $q_{\cdot} =$ k. > L < i. = n. > 0. > m. < $\Gamma_{\cdot} =$ p. < q. < s. < t. > U. =
- b. 43 6 a. 4 × 10 c. 6×10 d. 10 + 10 + 10 + 10 + 10f. 2 e. 45 h. 1 - 1g. 0

W. <

z. <

V. <

V. =

 $x_{\cdot} =$

- i 90 i. 0×12 k. 3 × 10 1.9×10 $m.8 \times 0$ 7 a. --- 4 b. ---- 3
- c. --- 5 $d \longrightarrow 1$ e. ---- 2 c. X 8 g. 🗸 b f. 1 e. I d. X i. X q. X h. 🗸 k. X L. X i. X m. X n. 1
- 9 a. 70,80 and 90 b. 100,110 and 120 c. 10,20 and 30 (Answers may vary)
- **10** a. $8 \times 9 = 72$ pieces b. $10 \times 9 = 90 \text{ pounds}$ c. $8 \times 6 = 48$ carriages
- 11 No, the multiples of 10 its ones digit is 0

Review on the multiples

1 1, 28 5. 24 6. 30 4.64 9, 40 8. 48 7.36

2. 45

11. 24 10.72 12. 6

3, 63

13. 0	14. 48	15. 81
16. 35	17. 18	18. 56
19. 54	20. 30	21. 63
22. 42	23. 16	24. 50
25. 32	26. 45	27. 49
28. 90	29. 56	30. 54
31. 0	32. 35	33. 36
34. 72	35. 28	36. 3
37. 24	38. 21	39. 36
40. 25	41. 70	42. 30
2 1. 72	2. 27	3. 63
4. 6	5. 28	6. 32
7. 36	8. 49	9. 30
10. 40	11. 50	12. 21
13. 35	14. 45	15. 54
16. 72	17. 63	18. 36
19. 0	20. 32	21. 70
22. 24	23. 80	24. 0
25. 20	26. 40	27. 18
28. 42	29. 24	30. 24
31. 54	32. 16	33. 35
34. 0	35. 30	36. 14
37. 56	38. 42	39. 81
40. 48	41. 36	42. 4

Exercise 14

1 a. 1 × 16, 16 × 1, 2 × 8, 8 × 2, 4 × 4

Factors are: 1,2,4,8 and 16

b. $1 \times 12, 12 \times 1, 2 \times 6, 6 \times 2,$ $3 \times 4, 4 \times 3$

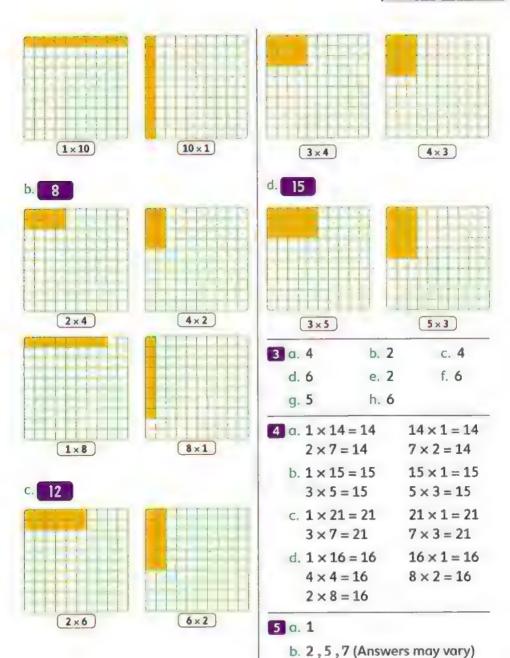
Factors are: 1,2,3,4,6 and 12

c. $1 \times 18, 18 \times 1, 2 \times 9, 9 \times 2,$ $3 \times 6, 6 \times 3$

Factors are: 1,2,3,6,9 and 18

- d. 1 × 20,20 × 1,2 × 10,10 × 2, 4 × 5,5 × 4 Factors are: 1,2,4,5,10 and 20
- e. 1×6 , 6×1 , 2×3 , 3×2 Factors are: 1, 2, 3 and 6
- f. $1 \times 15, 15 \times 1, 3 \times 5, 5 \times 3$ Factors are : 1, 3, 5 and 15
 - g. 1×9 , 9×1 , 3×3 Factors are: 1, 3 and 9
- h. $1 \times 7, 7 \times 1$ Factors are: 1 and 7

2 a. 10 (2×5) (5×2)



Exercise

15

- 1 a. 04:55
- b. 10:10
- c. 05:40
- d. 09:20
- e. 10:05
- f. 11:35
- g. 04:30
- h. 11:50



It's quarter past 7

b. 02:30

It's half past 2

c. 06:00

It's 6 o'clock

d. 04:45

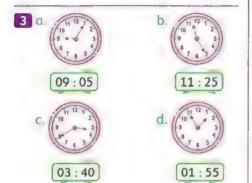
It's quarter to 5

e. 09:15

It's quarter past 9

f. [12:00]

It's 12 o'clock





00:10

h. 11 12

08:50

0 7 6 5

04:35

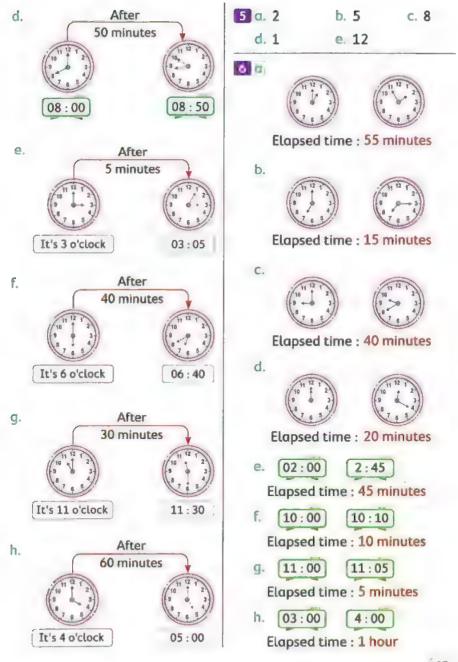


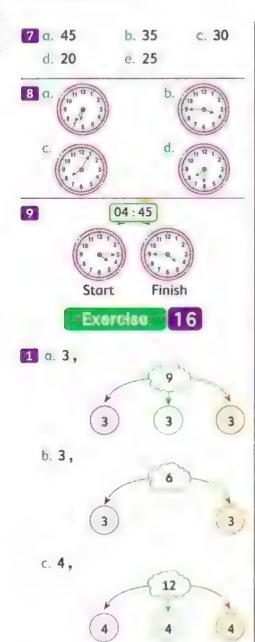
25 minutes

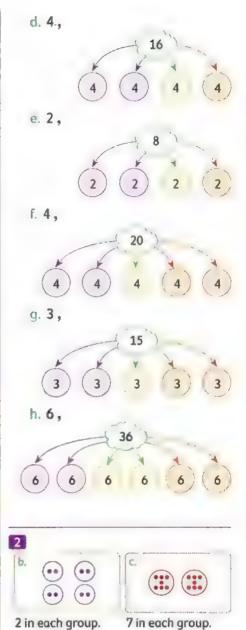
25 minutes

10:00

10:25









1 in each group.

- 3 a. 6 eggs in each plate.
 - b. 6 cats.
 - c. 7 stamps in each page.
 - d. 6 ibis
- e. 4 jackals
- f. 4 rows.
- a. 5 crocodiles
- h. 9 horses.
- No. he can not divide 13 into 2 equal groups.

Exercise

- 1 a. 4
- b. 2
- c. 5

- d. 4
- 8 9
- f. 10

- g. 4

- h. 3
- 1. 6

- i. 7
- k. 4
- 1. 8

- m. 9
- n. 8
- 0.1

- p. 7
- a. 7
- r. 6

- s. 1
- t. 10
- u. 4

c. 9

f. 1.

- v. 4
- w. 4
- x. 9

- y. 7
- 2. 6
- 2 a. 8
- b. 9
 - e. 3
- d. 10 q. 7

- h. 5
- i. 2
- j. 7

- 3 a. =
- h <
- C. >

- d =
- 0 >
- f. >

- g. =
- h. <
- 4 a. /
- b. X
- c. X f. 1

- d. 1
- e. X h. X
- i. X

- a. / i. X
- k. J
- L. X

- 5 a. 3,3
- b. 7,7
- c. 9.9 f. 8.8

- d. 3.3
- e. 9,9 b. 30
- c. 15

- 6 a. 12 d. 4
- e. 8
- f. 9

- a. 5
- h. 7
- i. 9
- 7 b. $2 \times 7 = 14$

$$7 \times 2 = 14$$

$$14 \div 7 = 2$$

$$14 \div 2 = 7$$

- c. $3 \times 9 = 27$
 - $9 \times 3 = 27$
 - $27 \div 3 = 9$
 - $27 \div 9 = 3$
- d. $4 \times 6 = 24$
 - $6 \times 4 = 24$
 - $24 \div 4 = 6$
 - $24 \div 6 = 4$
- 8 a. $9 \times 4 = 36$
 - $36 \div 4 = 9$
 - $36 \div 9 = 4$

b.
$$5 \times 8 = 40$$

$$8 \times 5 = 40$$

$$40 \div 8 = 5$$

c.
$$3 \times 6 = 18$$

$$18 \div 3 = 6$$

$$18 \div 6 = 3$$

d.
$$8 \times 2 = 16$$

$$16 \div 2 = 8$$

$$16 \div 8 = 2$$

e.
$$1 \times 13 = 13$$

$$13 \times 1 = 13$$

$$13 \div 13 = 1$$

f.
$$2 \times 7 = 14$$

$$7 \times 2 = 14$$

$$14 \div 7 = 2$$

9

$0.5 \times 6 = 30$	
$6 \times 5 = 30$	0
$30 \div 5 = 6$	1

 $30 \div 6 = 5$

$$6.3 \times 8 = 24$$

 $8 \times 3 = 24$

24 + 3 = 8

24 + 8 = 3 ®

$e.4 \times 7 = 28$ $7 \times 4 = 28$ $28 \div 4 = 7$

 $28 \div 7 = 4@$

 $q. 3 \times 7 = 21$ $7 \times 3 = 21$ $21 \div 3 = 7$

21+7=30

- $b.4 \times 6 = 24$ $6 \times 4 = 24$
- $24 \div 4 = 6$ $24 \div 6 = 46$
- $d.3 \times 6 = 18$ $6 \times 3 = 18$ $18 \div 3 = 6$
 - 18 ÷ 6 = 3 3
- $2 \times 4 = 8$ (8) $4 \times 2 = 8$ $8 \div 2 = 4$ 8+4=2 2
- $h.3 \times 10 = 30$ $10 \times 3 = 30$ $30 \div 3 = 10$ 30 + 10 = 3 3°

- 10 a. $36 \div 6 = 6$
- b. $9 \times 2 = 18$
- $c. 24 \div 3 = 8$

11

- a.
 - 19. 36
 - X 9 = 36
 - $9 \times 4 = 36$
 - $36 \div 4 = 9$ 36 + 9/= 4
- b. 1
- (2) (5) (10)
- $2 \times 5 = 10$
- $5 \times 2 = 10$
- $10 \div 2 = 5$
- $10 \div 5 = 2$

Exercise 18

- 1 a. 🗸
- b 1
- d. X
- e. X
- c. J E /

- g. X
- h. X
- 1. /

- i. 1
- k. X
- L. X

- m. X
- n. 🗸
- o. X

- Answers may vary

- d.
- 3 a. —→ Octagon
 - b. Triangle
 - c. Parallelogram
 - d. ---- Hexagon
 - e. ----- Pentagon
 - f. ---- Trapezium
- 4 a. Parallelogram b. Triangle
 - c. Pentagon
- d. Rectangle
- e. Square
- f. Trapezium
- g. Hexagon
- h. Circle
- i. Rhombus

Shape	Name	Attributes		Delugan
		Sides	Vertices	Polygon
\triangle	Triangle	3	3	polygon
WELCOME	Tropezium	4	4	polygon

ONE WAY	Rectangle	4	4	polygon
	Pentagon	5	5	polygon
P	Square	4	4	polygon
\otimes	Circle	0	0	not a polygon
STOP	Hexagon	6	6	polygon
200	Rhombus	4	4	polygon

- 6 a. X
- b. 1
- c. X

- d. /
- e. / h. J
- f. X

- q. 1
- 7 a. 3,3
- b. 8
- c. 5.5

- d. 7
- e. hexagon
- f. heptagon

Exercise

1



- Examples of parallelogram : rectangle , square , rhombus
- 2 a. Rectangle
- b. Rhombus
- c. Square
- d. Trapezium
- e. Parallelogram f. Trapezium

3 a. 4

b. 2

c 4

d. 4

e. 1

f. 4

4 a. trapezium

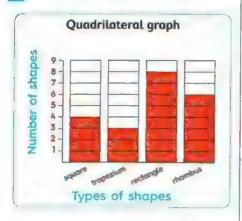
- b. quadrilateral
- c. square
- d. rhombus
 - e. rectangle
- 5 a. ✓
- b. X
- C. J

- d. X
- e. /
- f. X

- q. X
- h. 🗸
- i. /

i. 🗸

6



- a. Rectangle
- b. Trapezium
- c. 18

Exercise 20

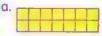
Fire Exercise on calculating area

- 1 a. 9
- b. 10
- c 14

- d 11 a. 30
- e. 14 h. 21
- f 10 i. 14
- i. $2 \times 5 = 10$
- $k. 3 \times 4 = 12$
- $1.3 \times 6 = 18$
- 2 a. 20
- b. 18
- c. 25

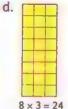
- d. 21
- e. 21
- f. 7

- g. 70
- h. 32
- 1. 40
- $3 a. 7 \times 6 = 42$
 - $h. 9 \times 8 = 72$
 - c. $4 \times 5 = 20$
 - d. $7 \times 10 = 70$
- 4 a.





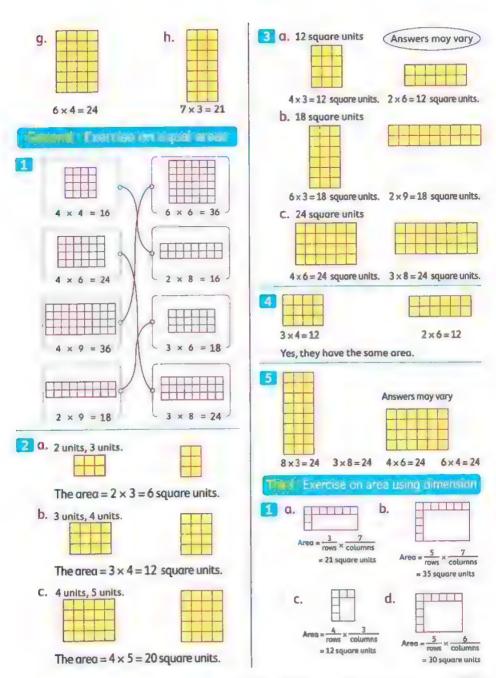
- $2 \times 7 = 14$
- C.



 $4 \times 2 = 8$











= 16 square units

Acea = = 71 square units

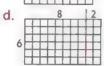
$23 \times 6 = 18$ square cm

Exercise









e.

 $2 a.8 \times 7 = (8 \times 5) + (8 \times 2)$

b. $6 \times 9 = (6 \times 5) + (6 \times 4)$

c. $(7) \times 10 = ((7) \times (7) + ((7) \times (3))$

 $d.(9) \times (8) = ((9) \times (4)) + ((9) \times (4))$

e. $(5) \times (11) = ((5) \times (1)) + ((5) \times (10))$

 $f.(4) \times (7) = ((4) \times (6)) + ((4) \times (1))$

3



 $8 \times 8 = (8 \times 5) + (8 \times 3)$



 $5 \times 6 = (5 \times 4) + (5 \times 2)$



 $6 \times 7 = (6 \times 1) + (6 \times 6)$



 $6 \times 7 = (6 \times 3) + (6 \times 4)$

$$8 \times 9 = (8 \times 4) + (8 \times 5)$$



6 |x 3 = 18

6 × 4 = 24

[18] + [24] = [42]

6 x 7 = (42) $6 \times 7 = (6 \times 3) + (6 \times 4)$ Answers may vary



5 × 6 = 30

5 × 4 = 20 30+20 = 50

5 x 10 =(50) $5 \times 10 = (5 \times 6) + (5 \times 4)$



 $\boxed{3 \times 8} = \boxed{24}$

3 × 5 = 15

24+15 = 39

 $3 \times 13 = (39)$ $3 \times 13 = (3 \times 8) + (3 \times 5)$ $7 \times 7 = 49$ 7 × 2 = (14)

49 + 14 = 63

 $7 \times 9 = 63$ $7 \times 9 = (7 \times 7) + (7 \times 2)$



8 × 1 = 8 8 x 1 = 8

(8)+(8)=[16]

8 x 2 = (16) $8 \times 2 = (8 \times 1) + (8 \times 1)$



9×2 = 18

 $9 \times 4 = 36$ 18+36 = 54

 $9 \times 6 = (54)$

 $9 \times 6 = (9 \times 2) + (9 \times 4)$





$$7 \times 3 = 21$$

 $7 \times 5 = 35$

$$(8) \times (5) = (40)$$

 $(8) \times (4) = (32)$

$$8 \times 4 = 32$$
 $40 + 32 = 72$

$$7 \times 8 = 56$$

$$7 \times 8 = (7 \times 3) + (7 \times 5)$$

$$8 \times 9 = (72)$$

 $8 \times 9 = (8 \times 5) + (8 \times 4)$

b. 5

d. 6

f. 4, 4

h. 10

1.3,1

1.5,7

6 a. $6 \times 7 = (6 \times 2) + (6 \times 5)$ = 12 + 30= 42

b. $9 \times 8 = (9 \times 4) + (9 \times 4)$ = 36 + 36

c. $4 \times 9 = (4 \times 4) + (4 \times 5)$

 $d. 12 \times 2 = (12 \times 1) + (1 \times 12)$ = 12 + 12

$$= 24$$

e.
$$10 \times 11 = (10 \times 10) + (10 \times 1)$$

= $100 + 10$
= 110

f.
$$5 \times 7 = (5 \times 6) + (5 \times 1)$$

= 30 + 5
= 35

g.
$$9 \times 6 = (9 \times 3) + (9 \times 3)$$

= $27 + 27$
= 54

h.
$$3 \times 14 = (3 \times 4) + (3 \times 10)$$

= 12 + 30
= 42

$$7a. \longrightarrow (3 \times 7) + (3 \times 3)$$

b.
$$\longrightarrow (7 \times 5) + (7 \times 1)$$

c.
$$\rightarrow$$
 $(4 \times 5) + (4 \times 4)$

$$\mathbf{d} = (9 \times 10) + (9 \times 3)$$

e.
$$\longrightarrow$$
 $(6 \times 6) + (6 \times 5)$

8 a. 1

b. 13

c. 4

d. 10

e. 10

Exercise





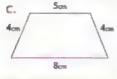






Perimeter = 5 + 5 + 5= 15 cm

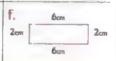
Perimeter = 2 + 3 + 2 + 3 = 10 cm





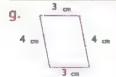
Perimeter = 5 + 4 + 8 + 4= 21 cm Perimeter = 5 + 5 + 5 + 5 = 20 cm

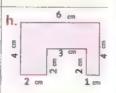




Perimeter = 3 + 5 + 5 = 13 cm

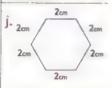
Perimeter = 6 + 2 + 6 + 2= 16 cm





Perimeter = 3 + 4 + 3 + 4 = 14 cm Perimeter = 6 + 4 + 1 + 2+ 3 + 2 + 2 + 4 = 24 cm

j. 3cm 3cm 3cm



Perimeter = 3 + 3 + 3 + 3 + 3= 12 cm Perimeter = 2 + 2 + 2 + 2 + 2 + 2 + 2 + 2 = 12 cm

a. Perimeter = 20 cm

Area = 21 square centimeters

b. Perimeter = 14 cmArea = 6 square centimeters

c. Perimeter = 12 cm
Area = 8 square centimeters

d. Perimeter = 12 cmArea = 9 square centimeters

e. Perimeter = 16 cm Area = 12 square centimeters

f. Perimeter = 14 cm Area = 9 square centimeters

g. Perimeter = 18 cm Area = 8 square centimeters

h. Perimeter = 20 cm Area = 10 square centimeters

i. Perimeter = 20 cmArea = 16 square centimeters

j. Perimeter = 22 cmArea = 14 square centimeters

k. Perimeter = 16 cm

Area = 12 square centimeters

l. Perimeter = 20 cmArea = 13 square centimeters

a. Perimeter = 14 meters

Area = 12 square meters

b. Perimeter = 16 metersArea = 15 square meters

c. Perimeter = 22 metersArea = 28 square meters

- d. Perimeter = 24 meters

 Area = 27 square meters
- e. Perimeter = 26 meters

 Area = 30 square meters
- f. Perimeter = 18 meters Area = 20 square meters
- a. 120 meters
- h. 132 square meters
- Za a. 48
 - b. 48
 - c. No, the area of the warehouse = $2 \times 6 = 12$ square meters The area of the garden = 2×7 = 14 square meters
 - d. Yes, the perimeter of the parking = 2 + 6 + 2 + 6 = 16 meters

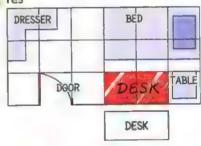
The perimeter of the swimming pool = 2 + 6 + 2 + 6 = 16 meters

5

Region	Perimeter In centimeters	Area in square centimeters
Red	18	18
Green	20	25
Blue	12	8
Yellow	22	18

- a. Green
- b. Blue, Red, Green, Yellow

Yes



Exercise



 \Box a. Area = 3×4

= 12 square centimeters

b. Area = 5×5

= 25 square centimeters

c. Area = 3×7

= 21 square centimeters

d. Area = 2×6

= 12 square centimeters

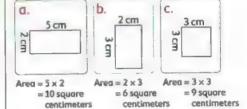
 $e \Delta req = 4 \times 4$

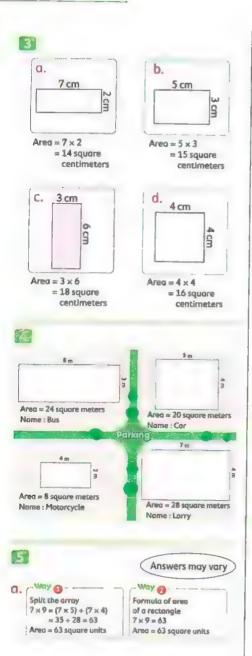
= 16 square centimeters

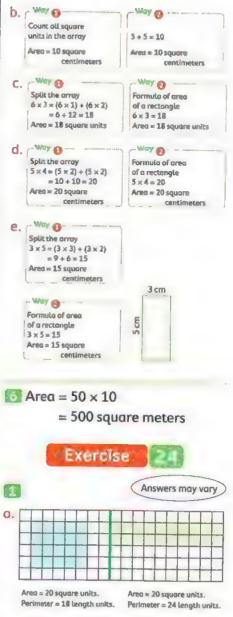
f. Area = 5×6

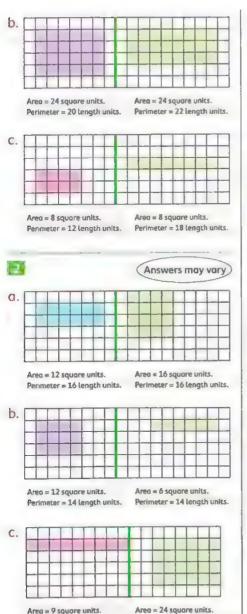
= 30 square centimeters

2.









Perimeter = 20 length units.

Perimeter = 20 length units.

1

Draw a rectangle with dimensions 3 cm and 2 cm Draw a rectangle with dimensions

Side lengths are 2 cm, 3 cm Perimeter = 10 centimeters Side lengths are 1 cm, 6 cm

The perimeter of the second rectangle is greater.

4

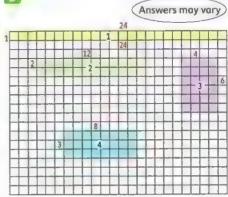
Answer may vary

Draw a rectangle with dimensions 6 cm and 4 cm

Draw a rectangle with dimensions 7 cm and 3 cm

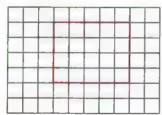
Side lengths are 4 cm, 6 cm Area = 24 square cm Side lengths are 7 cm, 3 cm Area = 21 square cm

The area of first rectangle is greater.



Take to the same of the same o	Width (length units)	Length (length units)	Area (square units)	Perimeter (length units)
Rectangle	1	24	24	50
Rectangle 2	2	12	24	28
Rectangle 3	4	6	24	20
Rectangle 4	8	3	24	22

6 4 cm , 5 cm



-Exercise



- a. The area of the pen $= 3 \times 2 = 6$ square meters
 - h. The number of tiles $= 7 \times 6 = 42$ tiles.
 - c. The perimeter = 20 + 12 + 20 + 12 = 64 cm
 - d. The length of the fence = 8 + 3 + 8 + 3 = 22 meters.

- e. The grea of the rug $= 3 \times 2 = 6$ square meters
- f. The area of the party banner $= 7 \times 2 = 14$ square meters
- g. The length of the border =45+45+45+45= 180 centimeters
- h. The area of the wall $= 6 \times 3 = 18$ square meters
- i. False.
- The perimeter of Kareem's school playground = 75 + 40 + 75 + 40 = 230 mThe perimeter of Ali's school playground = 90 + 30 + 90 + 30 = 240 mAlijogged longer.

Exercise Din



- 1 a. 12,120
- b. 10,100
- c. 18,180
- d. 28,280
- e. 24,240
- - b. $(8 \times 2) \times 10 = 16 \times 10 = 160$
 - c. $(7 \times 7) \times 10 = 49 \times 10 = 490$
 - d. $(9 \times 9) \times 10 = 81 \times 10 = 810$
 - e. $(3 \times 6) \times 10 = 18 \times 10 = 180$

f.
$$(4 \times 9) \times 10 = 36 \times 10 = 360$$

q.
$$(6 \times 2) \times 10 = 12 \times 10 = 120$$

h.
$$(7 \times 4) \times 10 = 28 \times 10 = 280$$

- **3** a. 150 b. 120 c. 320 d. 100 e. 160 f. 210
 - g. 540 h. 280 i. 160
 - j. 720 k. 180 l. 560
 - m. 180 n. 250 o. 100
- 4 a. 210 b. 4
 - d. 7 e. 0
 - g. 40 h. 80

- **5** a. 60
- b. 200
- c. 450

- d. 560
- e. 2
- f. 7 i. 3

- g. 2 j. 7
- h. 2 k. 3
- l. 1

- m. 50
- n. 2
- o. 30

- p. 5
- q. 90
- r. 3

6 600

c. 150

f. 320

Exercise

27

- a. 30,300,3,000
 - b. 6,60,600,6,000
 - c. 24,240,2,400,24,000
 - d. 28,280,2,800,28,000
 - e. 30,300,3,000,30,000
 - f. 35,350,3,500,35,000
- - b. $(4 \times 8) \times 10 = 320$
 - c. $(9 \times 2) \times 10 = 180$
 - d. $(6 \times 3) \times 10 = 180$
 - e. $(8 \times 5) \times 10 = 400$
 - f. $(7 \times 3) \times 10 = 210$
 - g. $(6 \times 7) \times 10 = 420$
 - h. $(5 \times 4) \times 10 = 200$
- 3 a. 120
- b. 100
- c. 240

- d. 210
- e. 250
- f. 320

- g. 4,200
- h. 2,700
- i. 500

- j. 600
- k. 20,000
- l. **18,000**
- m. 18,000
- n. 40,000
- o. 56,000
- **4** a. → 80
 - b. —— [180]
 - c. → 350
 - d. ____ 240

- **5** a. 50
- b. 7
- c. 9

- d. 2
- e. 4
- f. 3,000

- g. 200
- h. 4,000
- 6 a. $3 \times 40 = 120$
 - b. $4 \times 60 = 240$
 - $c. 5 \times 30 = 150$
 - d. $3 \times 40 = 120$ pounds.
 - e. $4 \times 60 = 240$ kilograms.
- 7 Yes, he is correct.
 - $6 \times 60 = (6 \times 6) \times 10$
 - $= 36 \times 10 = 360$

Exercise 28

- 1 a. 27 b. 18
 - 18 c. 54
 - 4 d. 36
 - e. 45 f. 72
- q. 9
- h. 0

- i. 63 j. 90
- 2 a. → 63
 - b. **→** 9 × 8
 - c. → 36
 - d. → 9 x 5
- 3 a. 90
- b. 45,54
- c. 63,72
- d. 36,45
- e. 18,9
- f. 27,36
- 4 a. 4
- b. 9
- c. 2
- d. 3

- e. 1
- f. 6
- q. 8
- h. 7

- 1. 0
- j. 5
- k. 10
- l. 3

- 5 a. 180
- b. 450
- c. 2.700
- d. 5.400
- e. 36.000
- f. 72,000
- 6 a. =
- c. 6
- d. 3
- e. 50 f. 54
- q. 9
- **Exprojus** 29

b >

- $0. \longrightarrow 4 \times 1$ h ----- 4 x 3
 - c ---- 2 x 0 d. --- 4+3
 - e 2 x 4
- 2 a. 5
- b 6
- c. 72
 - d 4
- e. 10 f. 0
- a. 15 h. 24
- i. 11 j. 12
- k. 20 L. 0
- m. 15 n. 8
- 0.40 p. 10
- g. 20 r. 11
- s. 1 t. 14
- 11. 7
- v. 81 w. 0
- x. 10

- y. 9
- z. 2
- 3 a. Multiply What Amgad paid =
 - $3 \times 5 = 15$ pounds
 - b. Add

The number of books =

- 4+5=9 books
- c. Multiply

The number of pencils =

- $5 \times 6 = 30$ pencils
- 4 a. 7
- b. 0
- c. 1

- d. 1
- e. 1
- f. 9

- q. 6
- h. 7
- i. 8

- i. 0
- k. 1
- i. 12

- 5 a. 0 b 1
- c 2
- d. 3

- e 5 f 1
- a. 0
- h 12

- i. 7 i. 2
- k 9
- 6 a. + h x
- C. +
- d +
- e. x Fx

Exercise

- $\mathbf{1}$ a. 3.000 + 500 + 9
 - b. 321,931 c. 6,000 Thousands
 - d. 56.342
- e. 4.3.2.7
- f. Ten thousands
- g. Hundred thousands . 100,000
- **3,000**
- b. 106,725
- c Ten thousands
- d. 531,074 e. 74,005
- f. 352,950 q. Thousands
- 3 a. 30
- b. 20
- c. 4

d 60

e. >

- e. 200,000 f. 10
- 4 a. < b. > C. <
 - f. >
- q. <
- h. >

d. =

- i. = j. <
- 5 a. The order is: 5,021,5,102, 5,201,5,210
 - b. The order is: 5,099,55,318, 55,418,505,720,550,941

- 6 a. 409,009, 30,199, 4,099, 3,109, 499
 - b. The order is: 248,672, 248,671, 15,378, 15,368, 9,725
- 7 a. 70,000

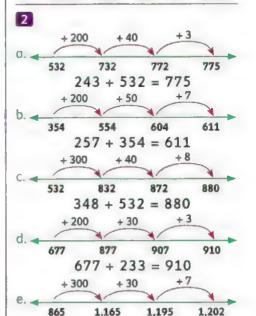
Answers may vary

- b. 800,000 + 30,000 + 5,000 + 400 + 60 + 9
- c. fifty-eight thousand, seventy-two
- d. hundred thousands
- e. 3,000 hundreds or 30,000 tens
- f. < g. > h. 80 thousands
- i. 5,101,10,050,50,011, 501,001,510,001
- 8 324, 0 65 , 19 0 , 654

Exercise 31

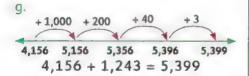
- 1 a. (300) + 20 + 8 (400) + 60 + 1
 - 700 + 80 + 9 = 789
 - b. 100 + (40) + 2 300 + 20 + 5
 - 400 + 60 + 7 = 467
 - c. 600 + 10 + 5 300 + 20 + 4 900 + 30 + 9 = 939

- d. 400 + 80 + 3 200 + 1 600 + 80 + 4 = 684
- e. [800] + [20] + [3]
 - 1,000 + 80 + 5 = 1,085
- f. 3,000 + 100 + 20 + 5 4,000 + 500 + 10 + 9
 - [7,000] + [600] + [30] + [14] = [7,644]
- g. [7,000] + [200] + [10][2,000] + [300] + [20] + [5]
 - [9,000] + [500] + [30] + [5] = [9,535]



865 + 337 = 1,202

f.
$$2,013$$
 2,213 2,283 2,291 2,013 + 278 = 2,291



- 3 a. 755 d. 913
- b. 750
- c. 946

- g. 201
- e. 645 h. 716
- £ 906

- i. 5.623
- k. 8.892
- 1. 7.521 1. 7,713

- m. 775
- n. 791
- 0.100

- g. 8,881

- D. 642 s. 6,200
- t. 11.593 u. 692
- r. 5,852

v. 5,723

4

Strategies may vary

a. First strategy:

$$100 + 20 + 7$$
 $400 + 20 + 6$

$$500 + 40 + 13 = 553$$

Second strategy:

1.1

127

553

1

+ 426

b. First strategy:

$$300 + 50 + 5$$
 $20 + 5$

Second strategy:

c. First strategy:

Second strategy:

$$400 + 20 + 9$$

 $100 + 50 + 2$

$$500 + 70 + 11 = 581$$

b.
$$328 + 149 = 477$$

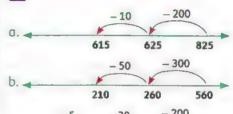
c.
$$410 + 175 = 585$$

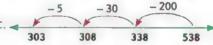
d.
$$338 + 354 = 692$$

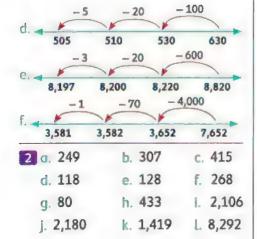
e.
$$509 + 487 = 996$$

$$f. 408 + 522 = 930$$

Exercise







n. 518

a. 2,233

t. 8,391

n. 330

r. 504

u. 3.381

Strategies may

3 a. First strategy:

m. 259

s. 1.325

v. 5,493

p. 315

4 11 6 5 1

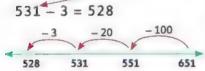
 $\begin{array}{r} -\cdot 123 \\ \hline 528 \end{array}$

Second strategy:

$$123 = 100 + 20 + 3$$

$$651 - 100 = 551$$

$$551 - 20 = 531$$



b. First strategy:

206 = 200 + 6 735 - 200 = 535 535 - 6 = 529 -6 -200 529 535 735

Second strategy:

c. First strategy:

Second strategy:

35 = 30 + 5 127 - 30 = 97 97 - 5 = 92 -5 92 97 127

d. First strategy:

3 × 11 ×,2×9 - 1,777 2,442

Second strategy:

$$1,777 = 1,000 + 700 + 70 + 7$$

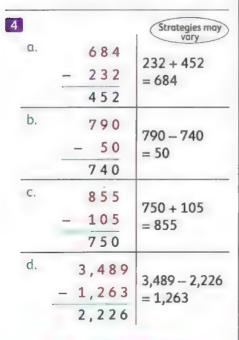
$$4,219 - 1,000 = 3,219$$

$$3,219 - 700 = 2,519$$

$$2,519 - 70 = 2,449$$

$$2.449 - 7 = 2.442$$





Exercise

- a. The total amount = 365 + 475 = 840 pounds
- b. The days left = 365 147= 218 days

- c. The number of students = 1.355 + 1.420 = 2.775 students
- d. The number of pages left = 370 - 139 = 231 pages
- e The number of all marbles = 435 + 435 + 435 = 870 + 435= 1.305 marbles
- f. The number of books on loan and missing = 525 + 137= 662 books

The number of books in the library now = 2.475 - 662= 1.813 books

- a. What Sami paid = 3.250 + 675= 3,925 L.E.The money left = 6.000 - 3.925= 2.075 L.E.
- h. What they need = 4,590 - 2,410 = 2,180 pounds

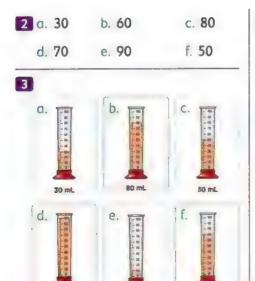
Exercise

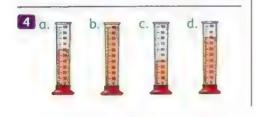
1 a. 1 L b. 300 mL c. 10 mL

g. 200 mLh. 3 L

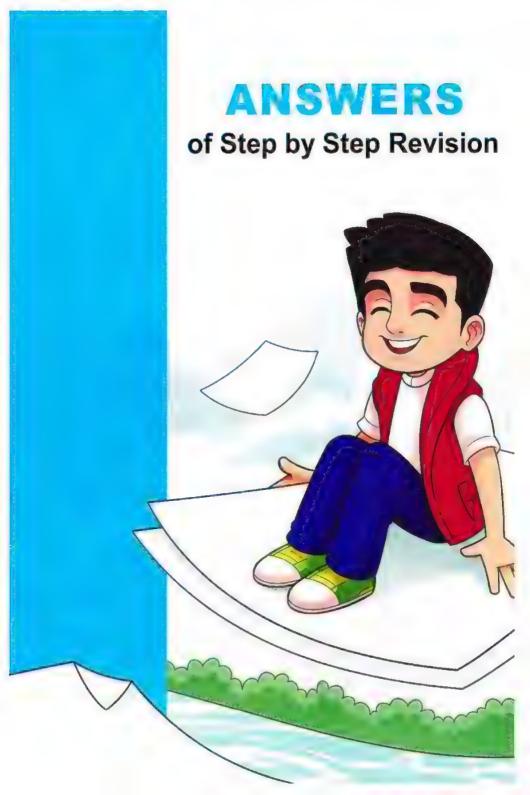
- d. 40 L e. 2 L f. 500 mL
- i. 2 L

i. 350 mL





- 5 a. 5,000 b. 9,000 c. 3 d. 4 e. 25,000 f. 37 g. 10,000 h. 7,000 i. 75 j. 1
- 6 a. 3,000 b. 14,000 c. 10,000 d. mL e. L f. capacity g. 330 mL h. 2 i. 70 j. capacity k. L l. 5,000 m. 3 n. 3 o. L p. mL
- 7 1 L = 1,000 mL, 1,300 - 1,000 = 300 mL Sameh drank 300 mL more than 1 L



Answers of Worksheets

Sheet 1

- $a_{0} = 10$
- $b_{1} + 16$
- 2 a. 53,56
- +3

c. - 25

- b. 40,30
- -10
- c. 135, 140
- + 5













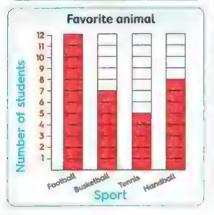




Sheet

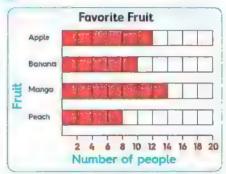
1

Favorite sports		
Sport	Tally	Number of students
Football	####	12
Basketball	11111	7
Tennis	##	5
Handball	## 111	8



- a. 7 students
- b. Football
- c. Tennis
- 2 a. 26,28
- + 2
- b. 15, 10
- -5
- c. 28,35
- +7
- d. 33,43 e. 456,567
- + 10 + 111
- f. 300,100
- 200

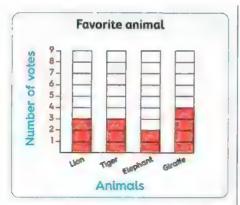
3



- a. 10 persons
- b. 26 persons

4

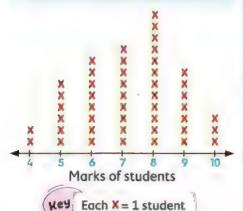
Favorite animal		
Kind	Tally	Number
Lion		3
Tiger		3
Elephant	II.	2
Giraffe	[[]]	4



- a. Giraffe
- b. Lion, Tiger
- c. 2 persons
- d. 1 person

1

Marks of students in math exam



Favorite Color

Color Tally

Yellow Hill Hill Hill

Blue Red Hill Hill Hill

Green Hill Hill Hill

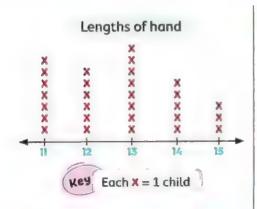
Green

- a. 25 students b. Green
- c. Blue d. 40 students
- 3 a. 4 children b. 5 children
 - c. 5 children d. 7 children
- 4 a. 10 children b. Saturn
 - c. 7 children d. 3 children
- 5 a. 31, 28 b. 24, 30
- c. 39, 49 d. 10, 15
 - e. _____ f.

Sheet ____

- 1 a. 7,70 b. 2 c. 4
 - d. 22 e. 7,70
- 2 a. 3 b. 200 c. cm

3



Assessment Chapter 1

11 a. 50

b. 2,50

c. 2

d. 45,44

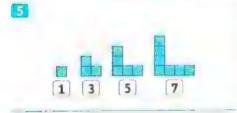
2 a. 3

b. 38

c. 2

d. 5

- 3 a. X
- b. 🗸
- . /
- d. X
- The order is: 77 cm, 70 cm, 77 mm, 70 mm

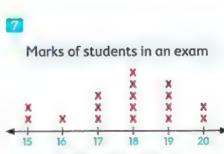


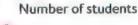
6 a. >

b. >

C. <

d. <







8

Saved coins			
Day	Tally	Number	
Sunday		3	
Monday	***	5	
Tuesday	44111	8	
Wednesday	1111	6	



- g. 921.458
 - b. 900,000 + 20,000 + 1,000 + 400 + 50 + 8
 - Nine hundred twenty-one thousand, four hundred fiftyeight.
- The order is: 978,4,792,7,563,8,460
- 🔞 a. 9,730
- b. 3,079
- 4 a. 7,038
- b. 500
- c. 3,206
- d. Thousands

e. 30

- f. 3
- g. 120
- h. 8

Sheet

- 6 b. 0
- 🚺 a. Ten thousands
 - c. 304,789
- d. 750,906

- e. 48
- 2 a. 7,400
- b. 🤚
- c. 642,713
- d. 7,000

- 3 a. <
- b. >
- C. <

- d. >
- e. >
- f. =

- 4 a. X
- b. X
- c. 🗸

- d. X
- e. 🗸

Sheet

- 11 a. 3,4,12
- b. 4,2,8

- 2 a, x x x x x x x x
- b. x x x
- 3 a. Ten thousands
- b. <
- c. 987, 540
- e. 800,000
- 4 a. 300,000 + 10,000 + 4,000 + 50 + 2
 - b. 70,000 + 2,000
 - c. 30,000 + 7,000 + 500 + 60 + 1
 - d. 10,000 + 4,000 + 30 + 1

- 1 a. 🗸
- b. 🗸
- c. X
- d. ✓ e. X
- f. X

- $3 \times 4 = 12$
- $2 \times 5 = 10$
- - $6 \times 3 = 18$
- 3 a. → Ten thousands
 - b. ——→ Hundred thousands
 - c. —→ Ones
 - d. ——→ Hundreds
 - e. Thousands
 - f. ► Tens

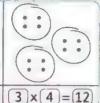








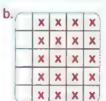




2 q.



 $4 \times 3 = 12$



$$4 \times 3 = \boxed{12}$$

$$5 \times 4 = 20$$

- 3 a. √
- h /
- C. X

- d. X
- e. X
- f. X

Assessment - Chapter 2

- 11 a. 30,000
- b. 258,731
- c. 6.000 + 200 + 30 + 9
- $d_{\cdot} =$

- e. >
- f. 3
- 2 a. 4+4+4
 - b. -+(5+5+5+5)
 - c. → 2 x 3
 - d. → 3 × 5

- 3 a. √ b. X c. X d. X

4 a. 3

- b. 2
- c. 50.050
- d. 3,6,18
- e. 5 + 5
- f. 0
- Cl. 4 rows of 3
 - $4 \times 3 = 12$
- 5 groups of 2 5 × 2 = 10
- 5 a. The order is: 812,926. 812,437,100,369,99,512, 766
 - b. The order is: 7,403,43,007, 304.700 . 307.040
- 6 a. >
- $b_{\cdot} =$
- C. >

- d. > q. =
- e. > h. >
- f. <
- Accumulative Assessment

Till chapter 2

- 1 a. $3 \times 5, 3 \times 6$ b. 5

 - c. 5,631
- d. 1,500





- 2 a. X
- b. / c) X
- e. X d. 🗸
- 3 a. 5

b. 30

c. 9

d. 9

- e. 55
- f. 60

- 4 a. → 20 mm
 - b. → 200 cm
 - c. ---- 1 m
- 5 a. 6
- h 3
- c. 9



- 2+2+2=6
- $3 \times 2 = 6$
- 72 a. The order is: 7.482.12.158. 54,658,954,201
 - b. The order is: 833.400. 833,312,83,987,8,315

11 a. 8

- b. 3,700
- c. 87,520
- d. 12
- 2 a. 4.000,60,2
- b. 2,3

c. 6

- d. 10
- $3 \text{ a. } 3 \times 4 = 12 \text{ peanuts}$
 - b. $7 \times 3 = 21$ manages
 - c. $3 \times 5 = 15$ balls

Sheet

- 1 a. 12
- b. 12
- c. 0

- d. 24
- e. 8
- f. 10

- q. 18
- h. 32
- i. 24

- i. 8
- k. 27
- L 16

- m. 20
- n. 0
- o. 14

- 2 a. 10
- h. 12
- c. 204,678
- d Thousands

- e. 5
- 3 a. 32,34,36,38,40,42,44,
 - 46.48.50.52.54.56.58 b. 33, 36, 39, 42, 45, 48, 51,
 - 54.57
 - c. 36,42,48

Answer may vary

Sheet

- 1 a. \bullet 6 x 5 = 30
 - $0.7 \times 4 = 28$
 - $6 \times 2 = 12$
 - $\cdot 6 \times 6 = 36$

 - $-7 \times 6 = 42$
 - $•5 \times 7 = 35$
 - $7 \times 0 = 0$
 - $\cdot 3 \times 9 = 27$
 - $2 \times 10 = 20$

- b. $9 \times 3 = 21$
 - . 5 x 9 = 45
 - $0.7 \times 7 = 49$
 - $•5 \times 6 = 30$
 - $-5 \times 5 = 25$
 - $-6 \times 8 = 48$
 - $\cdot 3 \times 5 = 15$
 - $•5 \times 4 = 20$
 - $•7 \times 9 = 63$
- c. $6 \times 4 = 24$ $•7 \times 8 = 56$
 - $\cdot 6 \times 10 = 60$
- $0 = 8 \times 0$
- $\cdot 1 \times 3 = 3$
- $\cdot 6 \times 9 = 54$
- $•7 \times 5 = 35$
- $5 \times 8 = 40$
- $\cdot 6 \times 3 = 18$
- 2 a. < · b. > d. <
 - e. >
- C. > f. =

- q. =
- h. <
- 1. <

- j. >
- 3 a. X b. 🗸
- C. X
- d. 1 e. V
- f. X

g. 🗸

- 1 a. $\bullet 8 \times 2 = 16$
 - $9 \times 5 = 45$
 - $-8 \times 6 = 48$
 - \bullet 10 x 2 = 20
 - $-8 \times 10 = 80$
 - $0.10 \times 6 = 60$
 - $9 \times 6 = 54$
 - $8 \times 7 = 56$
 - $9 \times 9 = 81$
 - $8 \times 9 = 72$

- b. $10 \times 3 = 30$
 - .8 x 1 = 8
 - $9 \times 7 = 63$
 - $-8 \times 5 = 40$
 - $-10 \times 7 = 70$

 - $9 \times 8 = 72$
 - $0.10 \times 5 = 50$
 - $8 \times 4 = 32$
 - $9 \times 3 = 27$
 - $8 \times 3 = 24$
- $c. \cdot 6 \times 4 = 24$ $\cdot 6 \times 3 = 18$
 - $•5 \times 6 = 30$
- $•4 \times 4 = 16$
- $-6 \times 6 = 36$
- $0 \times 7 = 0$ $-8 \times 8 = 64$
- $•4 \times 3 = 12$ •7 × 10 = 70
- $-6 \times 9 = 54$

- 2 a. √
- b. X
- C. 1

- d. X
- e. 🗸
- f. 1

- q. 🗸
- Multiples of 5 are . 15 . 20 . 25 .30,35,40,45,50,55,60, 65,70,75,80,85,90 and 95
 - Multiples of 10 are , 20, 30, 40,50,60,70,80 and 90
 - Common multiples of 5 and 10 are, 20, 30, 40, 50 and 60

Answer may vary

Sheet 1

1

- .1) (2) (3) (6)
 - $1 \times 6 = 6$
 - $2 \times 3 = 6$
 - 2 = 6
- 6 1 - 6
- (1) (9) (3) (27) $1 \times 27 = 27$
 - $3 \times 9 = 27$ $9 \times 3 = 27$
 - $27 \times 1 = 27$
- 2 (3) (4) (6,
- $2 \times 6 = 12$
- x = 4 = 12
- x = 3 = 12
- x 2 = 12

2

- a. 20 1 × 20 20 x 1
 - 2 × 10 10 × 2 4×5 5 x 4
- Factors are :

3×4 | 4×3

1 x 12

2 × 6

12 × 1

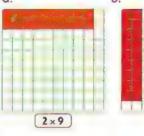
6 x 2

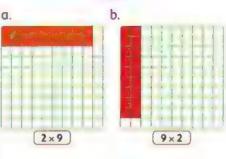
Factors are: 1.2.4.5.10 and 20

1.2.3.4.6 and 12

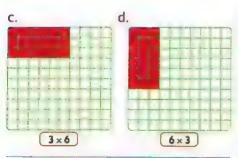
3

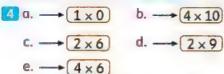
18

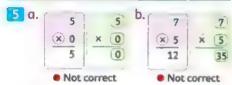


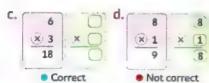


b.







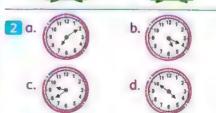


- 6 a. 42 b. 54 c. 36 d. 70 e. 64 f. 35 g. 16 h. 63 i. 48
- a. 3 equal rows, 4 in each row , 12 in allb. 2 equal columns
- 8 a. 30 b. 3,005 c. Ten thousands d. 3 x 9 e. <

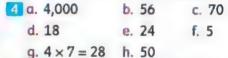
, 3 in each column, 6 in all

Sheet 15 1 a. 01:25 b. 09:20



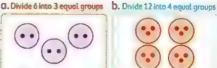












2 in each group. 3 in

3 in each group.

- 2 a. 32 b. 4 c. 39
- 3 4 apples
 4 a. 102,479 b. 3,000 c. 8 d. 6 e. 6

Answers of Worksheets

Sheet

- 1 a. 4
- h 7
- c. 7
- f. 3
- q. 9 k. 6
- d. 7 h. 1

- e 9 i 8
- i. 4
- t. 5

- 2 a. 6 e. 56
- b. 12 f. 9
- c. 7
- d. 3 a. 3 h. 14

i. 5

3

- $a.3 \times 9 = 27$ $9 \times 3 = 27$
 - $27 \div 3 = 9$ 27 ÷ 9 = 3 1
- $b.2 \times 7 = 14$ $7 \times 2 = 14$
 - $14 \div 7 = 2$ $14 + 2 = 7_{-1}$

4



- 08:25
- 5 a. 2,732
- b. 50,809

Assessment - Chapter 3

- 1 a. 10
- b. 12
- c. 7

- d. 2
- e. 30
- f. 4

- 2
- 1 × 18 18×1 2×9 9×2
- 3×6
- 6×3

Factors are 1, 2, 3, 6, 9 and 18

- 3 01:25
- 4 a. 12
- b. 0
- c. 15

- d. 6
- e. 10

- $5.5 \times 3 = 15 \text{ balls}$
- $6.3 \times 4 = 12$
 - $4 \times 3 = 12$
 - $12 \div 3 = 4$
 - $12 \div 4 = 3$



Accumulative Assessment

Till chapter 3

- 1 a. /
- b. X
- c. X

- d. X
- e. 1
- f. X

- 2 a. 20 d. 35
- b. 7 e. 10
- c. 6 f. 5
- 3 a. → 36 ÷ 6
 - b. $\longrightarrow 1 \times 5$
 - c. ---> 2 × 6
 - d. ----- 7 ÷ 7
 - e. → 2 x 1
- 4 a. 37,465
- b. 9+9
- c. 8

- d. 1,400
- e. 72
- f. 3
- Order is: 9,009, 9,999, 91,005 ,91,500,99,007
- 6
- $15 \div 5 = 3$ $3 \times 5 = 15$ $5 \times 3 = 15$
- $735 \div 7 = 5$ pounds.
- 8 a. 3
- b. 5
- c. 16



- 2 a. → 6 x 6
 - b. 1 x 0
 - c. \longrightarrow 2×10
 - d. → 2×4
 - e. -- 30 ÷ 3
- 3 a. triangle
- b. 6
- c. 4
- d. heptagon
- e. 5.5
- f. sides, vertices







Answer may vary

Sheet

- 1 a. Trapezium
- b. Square
- c. Rectangle
- d. Parallelogram
- 2 a. 4
- b. 2
- c. 4

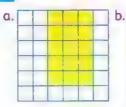
- d. 1
- e. 2
- f. 7
- 3 $a.7 \times 2 = 14$
- b. $9 \times 3 = 27$
- $14 \div 2 = 7$
- $27 \div 3 = 9$
- $14 \div 7 = 2$
- $27 \div 9 = 3$
- $c. 3 \times 6 = 18$
 - $6 \times 3 = 18$
 - $18 \div 6 = 3$

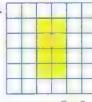
4 30 ÷ 6 = 5 monkeys can be fed.

Sheet 20

- 11 a. Area = $4 \times 7 = 28$
 - b. Area = $4 \times 4 = 16$ square units
 - c. Area = 12

2



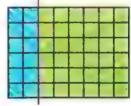


- $5 \times 3 = 15$
- $4 \times 2 = \begin{bmatrix} 8 \end{bmatrix}$
- 3 a. 2.4
 - b.70.000 + 3.000 + 200 + 80 + 9
 - c. 3
- d. 15.789
- e. 4
- 4 a. square b. parallelogram
 - ,4
- ,2
- ,2
- .2
- ,4
- ,4

Sheet

1 a.





Answers of Worksheets

$$6 \times 2 = 12$$

$$6 \times 8 = 48$$

$$6 \times 8 = (6 \times 2) + (6 \times 6)$$



$$\begin{bmatrix} 4 \\ \times \\ 4 \\ \times \\ 5 \end{bmatrix} = \begin{bmatrix} 16 \\ 20 \\ 16 \end{bmatrix}$$

$$4 \times 9 = 36$$

$$4\times9=(4\times4)+(4\times5)$$

- 2 g. 8
- b. 8.5

h. 3,13

c. 5,8

- d. 3.5
- e. 5
- f. 7.6

q. 5,15

1.4,10

- i.6,12
- 3 a. 26, 29 + 3 b. 22,20 - 2



- 5 a. 12
- b. 32
- c. 54

- d. 50 q. 5
- e. 4 h. 4
- f. 5 1. 7,542

- j. 5,089
- k. 5

m. 15

1.2

- 6 a. (03:25)
- b. 08:50
- c. 01:45
- d. 11:55
- 7 The order is: 79,999, 390,571. 391.897.735.429.745.216

Assessment - Chapter 4

- 1 a. Circle
- b. 6 sides
- c. Trapezium
- d. 9
- e. 4 x 9
- The area = 6×8 = 48 square units
- $36 \times 7 = (6 \times 5) + (6 \times 2)$ = 42 square units
- 4 a. Rectangle, 4, 4 b. Hexagon, 6, 6

Accumulative Assessment

Till chapter 4

- 11 a. 765, 876
- b. 53,538

c. 10

- d. 5
- e. 300
- f. 15

- q. 3
- 2 a. X

b. 🗸

C. 1

d. 1

e. X

f. 1

- q. X
- 3 a. Area = 6×4
 - = 24 square units.

 $h Area = 3 \times 6$ = 18 square units.

c. Area = 10

4 a. Parallelogram b. Trapezium

. 2

.0

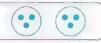
. 2

,1

,4

, 4

5



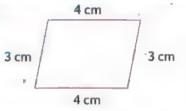
3 + 3 = 6 $3 \times 2 = 6$

			•
Sa	ved col	ns	Saved coins
Day	Tolly	Number	10)
Sunday		4	sujo 7
Monday	洲	6	5 5
Tuesday	雅雅	10	Ma 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Wednesday	W	5	Sunday Monday Tuesday Wednesday
			Dane 1

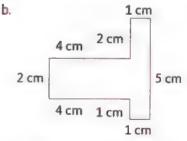
Sheet

- 1 a. 14,12 b. 18,12

2 a.



Perimeter = 3 + 4 + 3 + 4= 14 cm

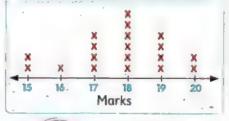


Perimeter = 1 + 2 + 4 + 2+4+1+1+5 = 20 cm

3 Perimeter = 4 + 4 + 3 = 11 cm

- 4 a. trapezium
- b. 1
- c. 2 x 6 d. 7 $f.6 \times 7$
 - q. 24
- e. 12 h. 7
- i. 305,251

Marks of students in an exam



Each x = 1 student Key

6 05:45



1 a.



b.



Area = 4 × 4 = 16 square Area = 5 × 2 = 10 square centimeters

C.



Area = 5 × 1 = 5 square centimeters

2 a.

3 cm

5 cm 5 cm

3 cm
• Perimeter = 3 + 3 + 3
= 9 cm

• Perimeter = 5 + 2 + 5 + 2 = 14 cm • Name : Rectangle

Name : Triangle

3 a. 36,40, +4

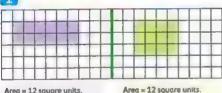
b. 20,15, -5

What Sara eats in a week = 5 × 7 = 35 carrots

Sheet

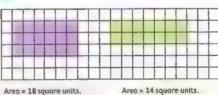


1



Area = 12 square units.
Perimeter = 16 length units.

Area = 12 square units. Perimeter = 14 length units. 2



Area = 18 square units.

Perimeter = 18 length units.

Area = 14 square units.
Perimeter = 18 length units.

3 a. 9 × 3

b. 700,000 + 50,000 + 3,000 + 900 + 20

c. 42

d. 8

e. 200

Sheet 25

1 The perimeter

= 15 + 10 + 15 + 10 = 50 cm

2 The area

 $= 4 \times 5 = 20$ square meters

3 The number of oranges in each

plate = $21 \div 3 = 7$ oranges

4 a. 20

b. 21

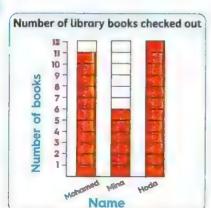
c. 42

d. 36

e. 5

f. 8

5 The order is: 579,989,589,979, 740,852,952,640 6



g. 11

b. 18

Sheet 26

- 1 a. 300
- b. 60
- c. 200

- d. 140
- e. 480
- f. 270

- g. 150
- h. 420
- i. 280

- i. 180
- k. 210
- L 450
- 2 a. 53,004 b. Thousands
 - c. 98.310 d. 10
- e. 36
- f. $3 \times 2 = 6 \square$
- $35 \times 8 = 40$
 - $8 \times 5 = 40$
 - $40 \div 5 = 8$
 - $40 \div 8 = 5$
- 4 a. <
- b. >
- C. >

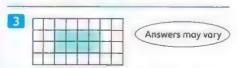
- d. <
- e. =
- f. =

Assessment - Chapter 5

1 a. Perimeter = 12 cm

Area = 8 square centimeters

- b. Perimeter = 16 cm
 Area = 15 square centimeters
- Answers may vary



- 4 a. → 60×2
 - b. 6 × 30
 - c. ─► 6 × 10
 - d. → 4×40
- 5 The length of the border
 - =40+30+40+30
 - = 140 cm

Accumulative Assessment

Till chapter 5

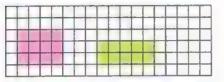
- 1 a. 30,003
- b. _______
- c. 9
- d. 6
- e. 10
- f. 20
- g. 210
- 2 a. >

- b. =
- c. 100
- d. 10
- e. 6,000

Answers of Worksheets

- 🛐 a. 🗸
- b. 1
- c. X

- d. J
- e. X
- 4 The perimeter
 - = 3 + 1 + 3 + 1 = 8 m
- a, half past 1 01:30
- b. quarter to 5 04:45
- Answers may vary



Saved coins Tally Number Day III Sunday IH 5 Monday HH HH 10 Tuesday 7 Wednesday



Sheet 27

- 11 a. 150
- b. 800
- c. 18.000
- d. 3.500 e. 1.200
- f. 32,000
- g. 1,800 h. 7,200
- i. 2.800
- $2 a. 2 \times 2 = 4$
- b. $2 \times 3 = 6$
- $c. 5 \times 3 = 15$
- $d.4 \times 1 = 4$
- $e. 2 \times 4 = 8$
- f. $4 \times 4 = 16$
- a. $9 \times 3 = 27$
- $3.6 \times 3 + 6 \times 2 = 18 + 12 = 30$
- 4 a. Trapezium
- b. Parallelogram
- c. Square
- d. Rectangle

- 11 a. 2
- b. 5
- c. 54

- d. 63
- e. 4

- a. 72
- f. 0

- h 9
- i. 90

- i. 64
- k. 42
- 1.9

- m. 49
- n. 8
- 0.3
- 2 The order is: 204,111, 203,415, 170,072,52,791
- 3 a. 01:15
- b. 05:55
- C. 04:40
- 4 a. 200 mL
- b. 2 L c. 350 mL
- The length of fence = 150 + 100+ 150 + 100 = 500 m

- 11 a. 5
- b 24 c 0
- e 1
- F 81
- d 3

- i. 2
- i. 0
- k. 1 0.0
- g. 10 h. 9 1.10

- m. 5
- n. 2

- 2 a. 3
- b. 8
- c. 6

- 3 a. 2,4,8 b. 1,6,6
- 4 The order is: 97,988, 178,000. 201,003,432,823

Sheet

- 1 a. 50,000
- b. 79,999
- c. 705.030
- d. Hundred thousands
- $e. 0 \times 10$
- f. 74,005

q. <

h. 10

- 2 a. 2
- c. 6 d. 7
- e 3
- q. 45 h. 14
- i. 56
- f. 2 i. 5

b. 7

- k. 4,200 L 72
- 3 a. Rectangle . 4 . 4
 - b. Hexagon, 6,6
 - c. Triangle, 3, 3

Sheet-

- 11 a. 700 + 20 + 8
 - 100 + 80 + 9
 - 800 + 100 + 17 = 917
 - (1)(1)
 - 728
 - +189
 - 917

- b. 500 + 40 + 3
 - 50 + 8
 - 500 + 90 + 11 = 601
 - (1)(1)
 - 543
 - + 58
 - 601
- 2 a. 315 + 148 = 463
 - b. 166 + 294 = 460
- 3 a. 02:00
 - It's 2 o'clock
 - b. 11:45
 - It's quarter to 12
 - C. 04:15
 - It's quarter past 4
- 4 a. mm
- b. m

- 4 15 12
 - 561

 - 279 = 200 + 70 + 9
 - 562 200 = 362
 - 362 70 = 292
 - 292 9 = 283
 - b. 10
 - 3 18 16

$$74 = 70 + 4$$

$$380 - 70 = 310$$

$$310 - 4 = 306$$

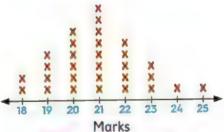
- 3 a. 3,600 b. 56,000

 - d. 20.000 e. 81
- c. 32 f. 56
- q. 43,53
- The area = $3 \times 2 = 6$ square meters She will need 6 tiles.

- What she has left = 435 118= 317 cards
- 2 The greatest number =416 + 245 = 661 passengers
- 3 The price of the mobile and speaker = 3,250 + 675= 3,925 pounds What has left = 6,000 - 3,925= 2,075 pounds
- c. 60 4 a. 903 b. 945 f. 585 d. 3,829 e. 750

Marks of students in an exam			
Marks	Tally	Number of students	
18		2	
19	IH	4	
20	1111	6	
21	##	8	
22	1111	5	
23	11	3	
24		1	
25		1	

Marks of students in an exam



wey Each X = 1 student

- 1 a. 11,000 b. 70
- c. 4

- d. 56
- e. mL
- f. 2,100

- q. 7
- h. 17,600

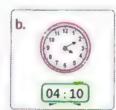






3





Assessment - Chapter 6

- 1 a. 641
- b. 2,000
- c. 21,000

- d. 40,000 e. 806,258
 - f. 7
- 2 a. 885
- b. 3,850
- c. 4.265

d. 3.749

3



- 4 a. 63
- b. 3
- c. 120

- d. 7,000
- e. 5
- f. 4

= 2,125 L.E.

5 The cost of T.V. and speaker = 4,500 + 375 = 4,875 L.E. The money left = 7,000 - 4,875

Accumulative Assessment

Till chapter 6

- 1 a. X
- b. 1
- c. J

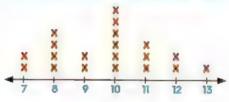
- d. X
- e. X
- f. 1

- 2 a. 4 (5) b. 5
- , 5 6 c. 5
- d. Hundreds
- e. 25
- f. 7

- 3 a. 459
- b. 424
- c. 6,613
- d. 4.433
- The total amount = 540 + 475
 - = 1,015 pounds
- 5 a. 7
- b. 7
- c. 21

- d. =
- e. 7
- f. 20
- a. --- 7,419 b. --- 374
 - **→** 335 d. ---**→** 509

Ages of children in karate class



Age in years



- a. 3
- b. 10
- C. 20

Answers of General Revision

Chapter



- 1 a. 2
- b. 50 c. 57,47
- e. 122,125
- f. 26, 30 g. 35, 40, 45
- 2 a. X
- b. X
- C. J

- d. 🗸
- e. X
- f. X

- q. 🗸
- 3 a. mm
- b. m
- c. mm
- d. m

4

Favorite ice cream flavor		
Flavor Tally		
Chocolate	1111	
Vanilla	1444441	
Caramel	1111	
Strawberries	- ##	

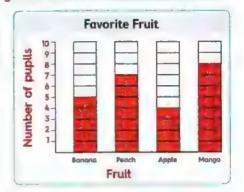
- a. 32
- b 12
- c. strawberries d. caramel
- 5 a. → 10 mm b. → 100 cm c. → 10 cm d. → 110 mm
- 6 a. 37 mm b. 58 mm c. 50 mm d. 43 mm e. 26 mm

The order is: 26 mm, 37 mm, 43 mm, 50 mm, 58 mm

- 7 a. 2 players
- b. 24 years
- c. 4 players
- d. 11 players

8

Favorite Fruit		
Fruit	Tally	Number
Banana	##	5
Peach	## II	7
Apple		4
Mango	1111111	8



Chapter

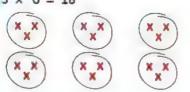
- 1 a. 1.549
 - b. 50,000 + 1,000 + 400 + 80 + 4
 - c. 2,705
- d. Ten thousands
- e. 0
- f. 3,21
- 2 a. 60,260 b. 34,890 c. 4,000
 - d. Hundred thousands
 - e. 5 + 5 + 5
- 3 a. 🗸
- b. X
- c. X

- d. X
- e. X





 $53 \times 6 = 18$



- 6 a. > b. =
- o. = c. > d. >
 - e. > f. < g. = h. >
- The greatest number is 9,540
 The smallest number is 4,059
- 8 a. 3 rows of 4
 - 4 + 4 + 4 = 12
 - $3 \times 4 = 12$
 - 5 rows of 2
 - 2+2+2+2+2=10
 - $5 \times 2 = 10$
 - b. 2 groups of 4
 - 4 + 4 = 8
 - $2 \times 4 = 8$
 - 4 groups of 3
 - 3+3+3+3=12
 - $4 \times 3 = 12$

- a. The order is: 833,400,833,312,83,987,8,315
 - b. The order is: 499,145, 69,270, 9,654, 9,325
- 10 a. The order is: 7,482,12,158, 54,658,954,201
 - b. The order is: 9,807, 28,009, 67,512, 805,325

Chapter

- 1 a. 27 b. 5. c. 3 d. 8
 - e. 8 f. 0 g. 24 h. 25
 - i. 4 j. 9 k. 8 L. 8
 - m. 7 n. 63 o. 20 p. 42
 - q. 15 r. 6 s. 90 t. 72
 - u. 6
- 2 a. < b. < c. > d. =
 - e. = f. < g. > h. >
- 3 a. $2 \times 3 = 6$
 - $3 \times 2 = 6$
 - $6 \div 2 = 3$
 - $6 \div 3 = 2$
 - b. $3 \times 5 = 15$
 - $5 \times 3 = 15$
 - $15 \div 3 = 5$
 - $15 \div 5 = 3$

Answers of General Revision

4 a.
$$\longrightarrow$$
 (3×4) b. \longrightarrow (4×6)
c. \longrightarrow $(30+6)$ d. \longrightarrow (1×9)

$$51 \times 12$$
, 12×1

$$3 \times 4$$
 , 4×3

7



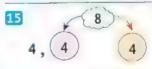


8



9 40

13 3.6.9.12.15.18



a. The number of seeds =
$$5 \times 7$$

= 35 seeds

b. The number of strings =
$$6 \times 10$$

= 60 strings

-Chapter-



$$2 a. 2 \times 4 = 8$$

b.
$$3 \times 6 = 18$$

c.
$$5 \times 4 = 20$$

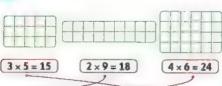
d.
$$5 \times 6 = 30$$

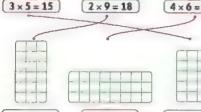
e.
$$6 \times 4 = 24$$

$$f. 4 \times 4 = 16$$

- Sa J
- b 1
- c. X

- d. X
- e. X
- f /





- $6 \times 3 = 18$
- $3 \times 8 = 24$
- $5 \times 3 = 15$
- $7 = 6 \times 4 = 24$



- $6 \times 3 = 18$
- 24 + 18 = 42
 - $6 \times 7 = 42$
 - $6 \times 7 = (6 \times 4) + (6 \times 3)$
- b. $6 \times 4 = 24$
 - $6 \times 4 = 24$
 - 24 + 24 = 48
 - $6 \times 8 = 48$
 - $6 \times 8 = (6 \times 4) + (6 \times 4)$

Chapter

- 1 a. Perimeter = 4 + 5 + 6 = 15 cm
 - b. Perimeter = 3 + 4 + 3 + 5 = 15 cm

- 2 a. 18,18
- b. 14,12
- c. 14.9
- d. 20,24
- 3 (Answers may vary)



(Answers may vary)



5 The perimeter = 2 + 1 + 2 + 1

 $= 6 \, \mathrm{m}$

6 The area = $5 \times 3 = 15$ square meters

- 7 a. 80
- b 450
- c. 240

- d. 270
- e. 180
- f. 280

- q. 350
- h. 150

- i. 420
- 1. 180
- 8 a. $(9 \times 5) \times 10 = 45 \times 10 = 450$
 - b. 12,120
 - c. $(5 \times 6) \times 10 = 30 \times 10 = 300$
 - d. 14,140
 - e. $(3 \times 2) \times 10 = 6 \times 10 = 60$
 - f. 35,350
 - g. $(9 \times 2) \times 10 = 18 \times 10 = 180$
 - h. 27,270

Answers of General Revision

Chapter

- 1 a. 40
- b. 12
- c 180
- d. 3.000
- e. 81
- f. 0
- a. 350
- h 0
- i. 5.400
- 1. 32
- k. 6
- L. 1,400 n. 21.000
- m 72 o. 18,000
- p. 20,000
- a. 0
- г. 2,700
- 2 a. 705
- b. 357
- c. 341
- d. 876
- e. 91
- f. 1.110
- g. 3,405
- h. 2,149
- i. 6,150
- i. 6,210
- k. 4.718
- L. 2,297
- m. 1,606
- n. 1.464
- o. 4.000
- p. 212
- a. 3,936
- r. 6,364
- a. Hundred thousands
 - b. Hundreds -
 - c. Tens
 - d. Ten thousands

- 4 a. 7,000
- b. 0
- c. 30,000
- d. 2
- 5 a. >
- b. > c. > d. >
- e. >
- f. =
- q. < h. >
- i. = j. >
- 6 a. 2 L
- b. 10 mL c. 50 L
- 7 a. 30 mL
- b. 60 mL c. 80 mL
- 8 a. 5,000 d. 10
- b. 17,000 c. 7 e. L
 - f. L

- g. mL
- 9 a. What Bassem paid = 5×90

= 450 pounds

- b. The remainder = 5.000 3.550
 - = 1.450 L.E.
- c. The number of all trees
 - = 475 + 516 = 991 trees
- d. What she spent = 1,250 + 375

= 1,625 pounds

The money left with her

- = 3.000 1.625
- = 1,375 pounds

Answers of Final Assessments

Model-

- 1 a. 840
- b. >
- c. 30,785

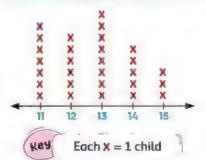
- d. 12
- e. 4
- f. 2

- 2 a. 1,200
- b. 451,331
- c. 8,598
- d. 3 + 4 + 5 = 12
- e. 6
- f. 9
- 3 a. The number of eggs in each plate = $15 \div 5 = 3$ eags
 - b. 06:15, quarter past six
 - C.
- 5 cm 2 cm
 - Perimeter = 5 + 2 + 5 + 2 $= 14 \, \mathrm{cm}$
 - Area = 5×2 = 10 square centimeters
 - d. (1) 25
- (2) 30
- (3) 71
- **(4)15**

4

Length of hand		
Length	Tally	Number
11 cm	##	7
12 cm	1111	6
13 cm	## III	8
14 cm	1111	5
15 cm		3

Length of hand



Model

- 1 a. Ten thousands
- b. 6

c. 12

d. >

e. 15

f. 1,200

- 2 a. 56
 - b. 20,000 + 5,000 + 600 + 7
 - c. 22
 - d. rectangle, rhombus, square
 - e. 3.000
 - f. 36,40,44
- 3 a. 30



c. The order is: 105,000, 501 hundreds, 50 thousands ,15,001

Answers of Final Assessments

- d. The number of apples = 6×9 = 54 apples
- e. 1 826 2 3,275

Favorite color		
Color	Taliy	Number
Green	##	5
Red	HH III	9
Yellow		4
Blue	##	7



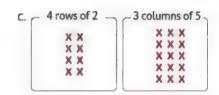
Model 3

- 11 a. x
- b. 30
- c. 50,000

- d. =
- e. ()
- f. 2

- **2** a. 500
- b. 7,000
- c. 1,2,4

- d. 25
- e. 12
- f. 3,275
- 3 a. The number of marbles = 153 + 223 = 376 marbles
 - b. The order is: 24,362, 325,261,532,271,532,272



- d. 35
- e. $2 \times 5 = 10$

Model 4

- 1 a. <
- b. 20
- c. 14

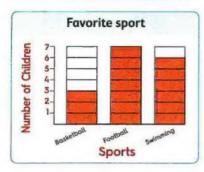
- d. 240.
- e. 40
- f. 72
- 2 a. 70,000 + 8,000 + 30 + 2
 - b. 3
- c. 3
- d. 80
- e. 11,025 f.
- 3 a. square, 4, 2, 4
 parallelogram, 2, 2, 4



- c. Perimeter = 3 + 3 + 3 + 3 + 3
 - = 12 cm
 - Area = 3×3
 - = 9 square centimeters
- d. What Sarah has = 4×5 = 20 sweets

e.

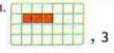
Favorite sports		
Sports	Tally	Number
Basketball		3
Football	##11	7
Swimming	1111	6



Model

- 1 a. 8
- b. 3 x 4
- c. 0
- d. 70
- e. circle
- f. trapezium
- 2 a. 3,205
- b. 4,187
- c. 5
- d. 64,54
- e. 3
- f. 1, 2, 3, 4, 6, 12

3 a.



- c. 462 + 241 = 703
- d. 1 56 (2) 35
- (3)9 (4)8

e.

1	Favorite pet		
	Pet	Tally	
	Cat		
r	Dog	11111	
	Fish	####	

Model

- 1 a. =
- b. 4
- c. 80

- d.
- e. 20
- f. 9,648

2 a.



- b. 968,431
- c. 6
- d. 203,456
- e. 4

- f. 2,030
- a.231 + 560 = 791

b.
$$6 \times 4 = 24$$

 $4 \times 6 = 24$

 $24 \div 6 = 4$

 $24 \div 4 = 6$



- c. 1 02:45 It is quarter to three
 - (2) 06:15 It is quarter past six
- d. Number of borrowed and missed books = 1,580 + 370

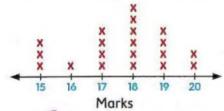
= 1,950 books

Number of books in the library = 5,775 - 1,950= 3,825 books

e.

Marks	of students in Tally	Number of students
15	[]	3
16		1
17	1111	4
18	1111	6
19		4
20		2

Marks of students in an exam



Key Each X = 1 student

Model

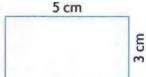
- 1 a. 6
- b. 180
- c. 6
- d. 300,000
- e. =
- f. 8 × 9
- 2 a. +2 +2 +2 30 , 32 , 34 , 36
 - b. 35,000
 - c. 4 rows of 3, $4 \times 3 = 12$
 - d. 21
- e. 6
- f. 20,757
- 3 a. The order is: 97,394,97,541,725,743,734,520

- b. 1 03:00
 - 3 o'clock

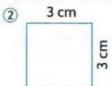
2 09:45 quarter to 10

- c. 110,307
- 2 3,162
- 3 56
- (4)8

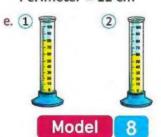
d. 1



Area = 15 square centimeters Perimeter = 16 cm



Area = 9 square centimeters Perimeter = 12 cm



- a. 40 ÷ 5
- b. 1
- c. 2,000

- d. 11
- e. 30
- f. 5
- 2 a. 900,000,30,000,400,20
 - b. 4
- c. 14
- d. 7

- e. 0
- f. 63

- 3 a. (1) 35
- 2 53
- (3) 42

- b. 1) 6.150 (2) 381,850,1,231
- c. 1 \longrightarrow 4×6 2 \longrightarrow 20-6
- - $3 \longrightarrow 2 \times 6 \quad 4 \longrightarrow 7 \times 0$
- d. 2

e.



Area = 8 square centimeters Perimeter = 12 cm

4 cm



Area = 16 square centimeters Perimeter = 16 cm

Model

- 1 a. 8
- b. 9
- c. 150

- d. <
- e. 750,843
- f. 580

- 2 a. 17
- b. 1,2
- c. 4,000, thousands
- d. 6
- e. 6,218
- f. 1, 2, 4, 8
- 3 a.











 $5 \times 4 = 20$

- b. 1 81
- 2 756

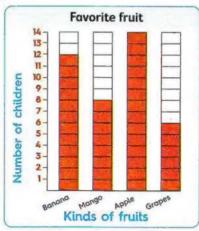


The perimeter = 5 + 4 + 5 + 4= 18 length units

d. The number of dogs = $32 \div 4$ = 8 dogs



f.



Model

- 1 a. 6,502
- b. 45
- c. 10 mm
- d. =
- e. 7,000
- f. 17,000

Answers of Final Assessments

- 2 a. 50
- b. 11
- c. 500,740 d. 0
- e. 公公公公公公公公公公





- b. The number of books left. =7,530-2,370= 5,160 books
- C.

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Shape	Name	Number of sides	Number of vertices
	Square	4	4
\Diamond	rhombus	4	4
\bigcirc	pentagon	5	5

d.

Favorite color					
Color	Tally	Number			
Red	III	3			
Blue	##	7			
Yellow	## ##	11			
Black		4			

- 17
- 2 Yellow
- 34

